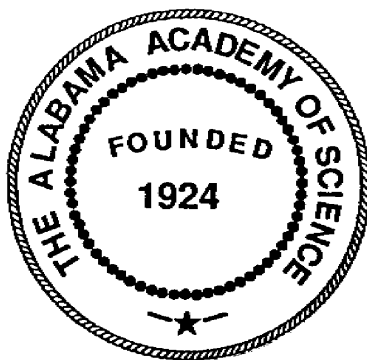


PROGRAM
EIGHTY-SIXTH ANNUAL MEETING
of the
ALABAMA ACADEMY OF SCIENCE, INC.



Meeting Jointly With
ALABAMA JUNIOR ACADEMY OF SCIENCE
GORGAS SCHOLARSHIP COMPETITION

March 25 – 27, 2009
University of West Alabama
Livingston, AL



www.alabamaacademyofscience.org

Tips for a safe stay:

- *When walking, stick to the main thoroughfares and well-lit areas.
- *If walking, don't wear fancy jewelry in plain sight.
- *Don't wear your meeting badge outside the motels.
- *Be cognizant and alert to surroundings. Look alert.
- *When walking after dark, don't hug the buildings or cars; walk in the open or near the curb
- *Carry your purse close to your body.
- *Don't leave valuables in your room. Get a motel safe deposit box.
- *Travel in groups. Don't be a loner, particularly in the evening.
- *Abide by common sense: If something looks suspicious, report it and/or avoid it.

***On-campus police, fire, medical service:**

University police/Security number: 652-3682 or 3682 from campus phones

Campus Emergency: 652-3682 or 3682 from campus phones

Emergencies (Police, Fire, Medical): 652-3682 or 3682 from campus phones

***Off-campus emergencies (Police, Fire, Medical): 911 or (205) 652-9525**

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87 th Annual Meeting (2010).....	Inside Back Cover



THE UNIVERSITY OF WEST ALABAMA
L I V I N G S T O N

March 25, 2009

Dear Friends:

On behalf of the faculty, staff, and students at the University of West Alabama, it is my pleasure to welcome each of you to our campus for the 86th meeting of the Alabama Academy of Science, as well as, the annual meeting of the Alabama Junior Academy of Science and the Gorgas Scholarship Competition.

Our university community has been actively involved in preparations for your visit, and we hope that you enjoy our campus and its hospitality.

We extend our best wishes for a successful meeting.

Sincerely,

Richard D. Holland, Ph.D.

Office of the President

Station 1 • Livingston, Alabama 35470 • (205) 652-3527 • Fax (205) 652-3774 • www.uwa.edu

Department of
Mathematics,
Physics, Computer
Science &
Geomatics

232 Math and
Science Complex
Troy, Alabama
36082

334-670-3406
334-670-3796 FAX



Dear AAS Members and Guests:

Greetings and welcome to the 86th Annual Meeting of the Alabama Academy of Science. The AAS was founded in 1924, and since that time, scientists from across Alabama meet each year for the purpose of advancement and sharing of scientific knowledge as well as the promotion of science education. This year we continue this great tradition as The University of West Alabama graciously hosts our annual meeting. This meeting will provide you the opportunities to present and learn new science, meet others from around the state with similar interests, and see what great work our young scholars are accomplishing. We have twelve sections within the Academy, representing a variety of disciplines, which provide forums for the presentation of scientific papers and posters. Also, there will be several forums for young scientists. Outstanding high school students from around the state participating in research will be presenting their work in the Alabama Junior Academy of Science as well as the prestigious Gorgas Scholarship Competition. College-level students will be presenting their results at the Alabama Statewide Chemistry Undergraduate Research Symposium. Finally, let me invite each of you to this year's symposium, which will be held Friday morning and is entitled "The Natural and Cultural History of the Black Belt." Each year, the symposium is a forum for presentations and discussion on a relevant topic, and this year it features experts from The University of West Alabama.

None of this would be possible without the dedicated and caring people who help in the planning and organization of this meeting. First, thanks to The University of West Alabama for hosting this meeting. I also wish to thank all of the trustees, officers, committee members, section chairs, and other volunteers who make this organization and meeting a success. A special thanks goes to Dr. Brian Burnes and other members of the local arrangements committee at The University of West Alabama. Last but not least, thanks to Dr. Larry Krannich, our Executive Director, for his extraordinary commitment and dedication to the overall success of the Academy.

In closing, whether you are here for the first time or you are a long time participant, I hope that you will have a wonderful and valuable experience here, meeting new friends or reconnecting with old friends, and learning new scientific and educational ideas. I also hope that you will tell others about the opportunities the Academy offers, and that you will be back with us next year!

Sincerely yours,

A handwritten signature in cursive script that reads "Kenneth Roblee".

Kenneth Roblee, Ph.D.
President, Alabama Academy of Science



LOCAL ARRANGEMENTS COMMITTEE

The officers and members of the Academy express their appreciation to University of West Alabama and the Local Arrangements Committee for their efforts in planning and hosting this 86th Annual Meeting.

Local Chair

Brian Burnes, Biology
bburnes@uwa.edu

University Liaison Officer
Richard Holland, President
rholland@uwa.edu

AAS Program Coordinator
Brian Burnes, Biology,
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AJAS Program Coordinator
John McCall, Biology
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Gorgas Program Coordinator
Jeffery Merida, Biology
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Registration

Christi George, Information Systems
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Gorgas Scholarship Competition
Ellen Buckner, UAB School of Nursing
bucknere@uab.edu

Audiovisual/Computers
Information Systems Staff
cjw@uwa.edu

Parking & Traffic Coordinator
Lee Stanton, Biology
lstanton@uwa.edu

Poster Coordinator
Doug Wymer, Biology
dwymer@uwa.edu

Publicity/Web Master Coordinator
Christi George, Information Systems
cjw@uwa.edu

GENERAL INFORMATION

- Registration badges will be required for admission to all scientific paper sessions, the Thursday evening social, and the banquet.
- Applications for membership and payments of annual dues will be accepted by the Secretary in the registration area. At least one of the authors of a presented paper or poster must be a member of the Academy.
- Tickets for the Joint AJAS/AAS banquet may be purchased at the registration desk until 9:30 Thursday morning.
- Computers will be provided where needed for presentations. If presenters bring their own, they are responsible for their computer.

POSTERS

Posters are to be available for viewing in the 1st and 2nd floor hallways of Bibb Graves Hall. **Each poster will be allotted 4' x 6' of wall space.** Authors for the session posters should be present for discussions with viewers as follows:

Thursday:

10:15 – 11:45 AM *Biological Sciences I (1st floor hallway)*
11:00 AM – 12 noon *Chemistry (2nd floor hallway)*
11:45 AM – 12:15 PM *Health Sciences (2nd floor hallway)*
2:00 – 3:00 PM *Physics and Mathematics (1st floor hallway)*
4:00 – 4:30 PM *Behavioral and Social Sciences (1st floor hallway)*

Friday:

11:45 – 12:15 PM *Science Education (2nd floor hallway)*
1:00 – 2:00 PM *Biological Sciences II (2nd floor hallway)*

NOTE: Posters must be removed as soon as your respective poster session has concluded to make space available for the next poster session.

PROGRAM
of the
ALABAMA ACADEMY OF SCIENCE
March 25-27, 2009
Bibb Graves Hall

Wednesday

4:00 - 6:00 PM Registration..... 1st Floor Main Entrance

6:30 - 10:00 PM Executive Committee
Dinner/ Meeting..... Bell Conference Center Private Dining Room

Thursday Morning

7:00 - Noon
Registration..... 1st Floor Main Entrance
Refreshments..... 1st Floor Main Entrance

8:30 AM Academy of Science Program Sessions Bibb Graves Hall & Wallace Hall
Section Program Sessions:

8:30 *Engineering and Computer Science (Section X)*..... Bibb Graves Hall, Room 106
9:00 *Biological Sciences I (Section I)*..... Bibb Graves Hall, Room 109
9:00 *Physics and Mathematics I (Section V)* Bibb Graves Hall, Room 111
9:00 *Chemistry (Section II)*..... Bibb Graves Hall, Room 211
9:00 *Health Sciences I (Section IX)* Bibb Graves Hall, Room 204
10:20 *Industry and Economics (Section VI)* Wallace Hall, Room 213

10:15 AM – 1:30 PM Poster Viewing Bibb Graves Hall, 1st and 2nd floor hallways
Authors present to discuss these section posters from

10:15 PM – 11:45 PM.....*Biological Sciences(1st Flr Hallway)*
11:00 AM – 12 noon..... *Chemistry (2nd Flr Hallway)*
11:45 AM – 12:15 PM.....*Health Sciences (2nd Flr Hallway)*
2:00 – 3:00 PM *Physics and Mathematics (1st Flr Hallway)*

Thursday Afternoon

Noon – 1:00 PM Workshop
Planning for Graduate Study in Chemistry and the Sciences.....Room 211
This workshop, which is presented by the University of Alabama's Department of Chemistry, will focus on the advantages of obtaining a graduate degree in chemistry, things to consider in selecting and applying for graduate school, and what to expect once enrolled in graduate school. The information presented will also apply in general to the other sciences. Students and educators from all areas of science are welcome to attend. A box lunch will be provided free of charge to all attendees.

Noon – 1:30 PM

Lunch Campus Cafeteria
Lunch (Trustees, Elected Officers, Exec. Dir.)..... Cafeteria, Private Dining Room

12:45 PM Group Picture 1st Floor Main Entrance

1:00 - 4:00 PM

Registration 1st Floor Main Entrance
Refreshments..... 1st Floor Main Entrance

1:00 – 5:00 PM Academy of Science Program Sessions Bibb Graves Hall & Wallace Hall

Program Sessions:

1:00 *Biological Sciences II (Section I)*..... Bibb Graves Hall, Room 109
1:10 *Behavioral Sciences (Section VIII)* Bibb Graves Hall, Room 111
1:40 *Industry and Economics (Section VI)* Wallace Hall, Room 213

4:00 - 4:45 PM Poster Viewing Bibb Graves Hall, 1st floor hallway
Authors present to discuss these section posters from

4:00 – 4:45 PM *Behavioral and Social Sciences (1st Flr Hallway)*

Thursday Evening

5:30 PM Section Officer's Meeting Room 102

6:00 PM AJAS/AAS Annual Business Meeting Room 102

7:00 PM Joint AJAS/AAS Banquet..... Bell Conference Center

Kenneth Roblee, Presiding

Bill Finch

Coccoliths and culture: The roots of Southern history embedded in Black Belt soils

Presentation of the Academy Awards

Kenneth Roblee, Richard Hudiburg, Prakash Sharma

Presentation of Gorgas Finalists

Ellen Buckner

Friday Morning

7:00 – Noon

Registration..... 1st Floor Main Entrance
Refreshments..... 1st Floor Main Entrance

8:15 – Noon SYMPOSIUM.....Bell Conference Center

8:00 AM to 12:00 noon
Bell Conference Center

Symposium Sponsored by Biological Sciences (Section I);

“The Natural and Cultural History of the Black Belt”

8:00 – 8:40 AM What Makes the Black Belt Black. *Andrew K. Rindsberg*, The University of West Alabama.

8:50 – 9:30 AM What Makes the Black Belt Green. *Lee Stanton*, The University of West Alabama.

9:40 – 10:30 AM What Makes the Black Belt Smoky. *Douglas Wymer*, The University of West Alabama.

INTERMISSION

10:45 – 11:35 AM Archaeological Research of the Prehistoric Black Belt. *Ashley Dumas*, The University of West Alabama.

11:45 AM – 12:30 PM When Cotton Was King: Agriculture’s role in the economy of the Black Belt ; Past, Present, and Future. *Howell Sheffield*. The University of West Alabama.

8:30 - 11:30 AM Academy of Science Program Session Bibb Graves Hall

Program Sessions:

8:30 Science Education (Section VII) Room 211

10:15 Biological Sciences III (Section I) Room 204

Noon – 1:30 PM Lunch..... Campus Cafeteria

Friday Afternoon

1:00 - 2:00 PM Registration..... 1st Floor Main Entrance

11:45 AM – 1:30 PM Poster Viewing 1st and 2nd floor hallways

Authors present to discuss these section posters from

11:45 AM – 12:15 PM Science Education (2nd Flr Hallway)

1:00 – 2:00 PM Biological Sciences (2nd Flr Hallway)

1:00 – 5:00 PM Academy of Science Program Sessions Bibb Graves Hall

Program Sessions:

1:00 Anthropology (Section XI) Room 111

1:00 Bioethics and History & Philosophy of Science (Section XII)..... Room 211

2:00 Biological Sciences IV (Section I) Room 204

**PROGRAM of the
ALABAMA JUNIOR ACADEMY OF SCIENCE
B.J. Bateman, State Counselor
March 26 and 27, 2009
Bibb Graves Hall**

Thursday

- 3 - 5:00 PM Early Arrival Registration..... 1st Floor Main Entrance
- 6:00 PM AJAS/AAS Annual Business MeetingRoom 102
- 7:00 PM Joint AJAS/AAS Banquet.....Bell Conference Center

See page 4 for Banquet Program

Friday

- 7:00 AM Continental BreakfastComfort Inn
- 7:45 AM Registration..... 1st Floor Main Entrance
- 7:45 AM Paper Reading
OrientationRoom 109
Judges OrientationRoom 110
- 8:15 AM Paper Competition
Biology.....Room 110
HumanitiesRoom 106
Mathematics/EngineeringRoom 111
Physical ScienceRoom 109
- 11:30 AM Caucus.....Room 109
- 12:00 Noon LunchCampus Cafeteria
- 2:00 PM Paper Competition Finals.....Room 109
- 3:30 PM Elections and Business Meeting Room 109
Group Photograph..... 1st Floor Main Entrance
- 4:00 PM Awards Reception, Joint AJAS/Gorgas.....Bell Conference Center

GORGAS SCHOLARSHIP COMPETITION
Thursday, March 26, 2009

Ellen Buckner, Chair, Judges

7:00 PM Joint AJAS/AAS Banquet.....Bell Conference Center

Joint Banquet and Recognition of Gorgas Finalists
See page 4 for Banquet Program

Friday, March 27, 2009

Final Competition: Finalists' Presentations to Judges and Interviews
Bibb Graves 206
Ellen Buckner, Chair, Judges

9:30 AM Set Up Science Exhibits..... Bibb Graves 104

10:30 AM Demonstrations for Judges Bibb Graves 104

11:30 AM Refreshment Break..... 1st Floor Main Entrance

12:00 – 2:00 PM Individual Interviews with Judges Offices in Pruitt Hall

11:30 – 2:00 PM Public Showing of Exhibits Bibb Graves 104

2:00 PM Remove Exhibits..... Bibb Graves 104

4:00 PM Awards Reception, Joint AJAS/Gorgas.....Bell Conference Center

Announcement of Winners
Ellen Buckner

The Alabama Science Scholar Search and Gorgas Scholarship Competition is supported by the Alabama Power Foundation, Incorporated, and administered by the Alabama Academy of Science, Inc.

The Gorgas Scholarship Competition website, www.GorgasScholar.org, contains detailed information on the annual competition and awards available to winners and finalists.

SECTION I – BIOLOGICAL SCIENCES

Session I

Thursday Morning, 9:00 – 10:00 AM

Room 109, Bibb Graves Hall

Mickie Powell, Presiding

- *1 9:00 Prevalance of *Toxoplasma gondii* infection in feral cats (*Felis catus*) in Sumter County Alabama. *Domoneek McCoy*, Tracy W. Duckworth. The University of West Alabama.
- *2 9:15 Survey of barley yellow dwarf vectors in Alabama and Panhandle Florida. *Buyung A.R. Hadi*, Kathy Flanders. Auburn University.
- *3 9:30 Occurrences of *Borrelia* species in host-seeking ticks in western Alabama. *Carlin Tighe*, Tracy W. Duckworth, John McCall. The University of West Alabama.
- *4 9:45 Pilot comparison of oxbow lakes microflora, “Perry Lakes Park,” Perry Country, Alabama. *Ashley N. Wigley*, Christine Sestero, Thomas Wilson. Judson College.

SECTION I – BIOLOGICAL SCIENCES

Posters, Session I

Thursday Morning

1st Floor Hallway, Bibb Graves Hall

Authors Present: 10:15-11:45

- *5 Assessment of parasitic infection in feral cats (*Felis catus*) in Sumter County Alabama. *Domoneek McCoy*, Tracy W. Duckworth, The University of West Alabama.
- *6 Sensitivity of *Staphylococcus aureus* to methocillin, penicillin, and vancomycin. *Stephen Anthony Cupit*, Brian Burnes. The University of West Alabama.
- *7 Sediment load and macro invertebrate diversity in Five Mile Creek upstream and downstream of Dolcito Quarry. *Scottie M. Jackson*, Kylie S. Harmon, Grant Gentry, Elizabeth G. Dobbins. Samford University.
- *8 The effect of pine tree extract on *Xenopus laevis*. *Sunde M. Jones*, Kristin Shirey, James Rayburn. Jacksonville State University.

- *9 Hemoglobin expression in the hypothalamus of mice following atypical antipsychotic drug treatment. *Sybil N. Sexton*, Robert Kesterson, and Tim R. Nagy. University of Alabama at Birmingham.
- *10 Developmental toxicity assessment of the ionic liquid 1-decyl-methylimidazolium chloride in CD-1 mice. *Jonathan M. Sherrill*, Janis Beaird, Jane Rasco, Melissa M. Bailey, J.M. Sturdivant, M.B. Townsend, P.L. Jernigan, R.P. Swatloski, R.D. Rogers, R.D. Hood. University of West Alabama, University of West Alabama, University of Alabama, Emporia State University, University of Alabama.
- *11 A summer on the zone diet. *Daniel L. Ross*, Tracy W. Duckworth. The University of West Alabama.
- *12 Survey of soil microbes of the Black Belt region of Alabama. *Molly L. Jackson* and Brian Burnes. The University of West Alabama.
- *13 Malaria vaccine candidate *Plasmodium falciparum* merozoite surface protein 6: assessing genetic diversity in the Peruvian Amazon. *Aaron T. Neal*, Stephen J. Jordan, OraLee H. Branch, Julian C. Rayner. University of Alabama at Birmingham.
- *14 Role of DNA methylation in maintaining place field stability. *Kelli M. Money*, Jamie N. Keeton, J. David Sweatt, Eric D. Roth. University of Alabama at Birmingham.
- *15 Aging: changes in glia, white matter degradation, and cognitive deficits. *Stephen C. Thomas*, Inga Kadish, Thomas Van Groen. University of Alabama at Birmingham, Birmingham-Southern College.
- *16 Using surrogate metal ions to probe iron bonding properties of frataxin. *Matthew Thacker*, Laura Busenlehner, Leslie E. Gentry. University of Alabama.
- *17 Raman spectroscopic analysis of pancreatic islets. *Kimberly A. Hobbs*, Emanuel Waddell, Jacqueline U. Johnson, Adriel D. Johnson, Sr. University of Alabama in Huntsville, University of Alabama in Huntsville, Alabama A&M University, University of Alabama in Huntsville.
- *18 Cetuximab does not sensitize squamous cell carcinoma cell lines to ionizing radiation *in vitro*. *Corey M. Porter*, Zhi Huang, Jeffery Sellers, Peter Kulesza. University of Alabama at Birmingham.

* Denotes presentation is entered in competition

SECTION I – BIOLOGICAL SCIENCES

Session II

Thursday Afternoon, 1:00 – 3:00 PM

Room 109 , Bibb Graves Hall

Mickie Powell, Presiding

- *19 1:00 Is RNA interference involved in plant-fungal symbiosis? *Joy M. Agee*, Avinash Sreedassiyam, Geetika Trivedi, Gopi K. Podila, Ph.D. University of Alabama in Huntsville.
- *20 1:15 Relative halotolerance for *Staphylococcus aureus*, *Escherichia coli*, and *Listeria monocytogenes*: A view of their interactions with NaCl. *Lindsay N. Marks*. The University of West Alabama.
- *21 1:30 Toxicity of venom from two tarantula species (*Haplopelma lividium* and *Grammostola rosea*) on embryo/larvae of *Xenopus laevis*. *Kristin D. Shirey*, Sunde M. Jones, James R. Rayburn. Jacksonville State University.

2:00 INTERMISSION

- 22 2:15 Investigative studies on the effects of ultraviolet radiations (uvr) to *Arabidopsis thaliana* plants and to their callus. *Majitaba Hamissou*, Kenny Reghard, Casie Sanders, Amanda Smith, Jacksonville State University.
- 23 2:30 Road-side fencing to conserve Alabama red-bellied turtles on the Mobile Bay causeway. *David Nelson*, University of South Alabama, and Cynthia Scardamalia-Nelson, Providence Hospital, Mobile, Alabama.
- *24 2:45 Diamondback terrapin hatchling orientation: to sea or not to sea? That is the question. *Andrew T. Coleman*, Thane Wibbels, and Ken Marion, University of Alabama at Birmingham, and John Dindo, Dauphin Island Sea Lab, Dauphin Island, AL.
- 25 3:00 Investigation of woody perennial flowering in populus deltoides for training in functional genomics. *Ketia L. Shumaker*, Joseph Kennedy, Shaqoundra Williams, John Carlson. University of West Alabama.

3:15 BUSINESS MEETING

Elect a Vice Chair for 2009-2011 term

* Denotes presentation is entered in competition

**Symposium Sponsored by Biological Sciences (Section I);
Friday Morning
8:00 AM to 12:00 noon
Bell Conference Center**

“The Natural and Cultural History of the Black Belt”

- 8:00 – 8:40 AM What Makes the Black Belt Black. *Andrew K. Rindsberg*, The University of West Alabama.
- 8:50 – 9:30 AM What Makes the Black Belt Green. *Lee Stanton*, The University of West Alabama.
- 9:40 – 10:30 AM What Makes the Black Belt Smoky. *Douglas Wymer*, The University of West Alabama.
- INTERMISSION
- 10:45 – 11:35 AM Archaeological Research of the Prehistoric Black Belt. *Ashley Dumas*, The University of West Alabama.
- 11:45 AM – 12:30 PM When Cotton Was King: Agriculture’s role in the economy of the Black Belt ; Past, Present, and Future. *Howell Sheffield*. The University of West Alabama.

**SECTION I – BIOLOGICAL SCIENCES
Session III
Friday Morning, 10:00 – 12:00 noon
Room 204, Bibb Graves Hall
Mickie Powell, Presiding**

- 26 10:00 Phylogenetic distinctiveness of the endangered Alabama Red-Bellied Cooter (*Pseudemys alabamensis* Baur). *Thomas G. Jackson, Jr.*, Ashley B. Morris, and David H. Nelson. University of South Alabama.
- 27 10:15 Prodigiosin pigment of *Serratia marcescens* may function to spill excess cellular energy. *Pryce L. Haddix*, Sarah Jones, Pratik Patel, Sarah Burnham, Kaori Knights, Joan N. Powell, Amber LaForm. Auburn University Montgomery.

- 28 10:30 Temperature and rainfall trends in south central Alabama and western Georgia 1948-2006. *Sig B. Harden*, John Boncek, Troy University Montgomery.
- 29 10:45 Seasonal appraisal of presence or absence of fecal indicator bacteria in water before and after treatment. *Benedict C. Okeke*, Sue Thomson, Stephanie A. Russell, Stefanie O. Davis, Victoris Gunter, and Natasha N. Bozeman. Auburn University Montgomery and Elicia M. Moss, Alabama A&M University.
- 11:00 INTERMISSION
- 30 11:15 Comparing faculty perceptions of their teaching with classroom observations. *Erika M. Steele*, Donna P. Turner, Dennis W. Sunal, Cynthia S. Sunal. University of Alabama.
- 31 11:30 Environmental variables effecting darter distribution in a Sumter County, Alabama stream. *Amanda Gravlee*, Jeremiah Hembree, Blake Meherg, Lee Stanton, John McCall. The University of West Alabama.
- 32 11:45 Distribution of darters in Sumter County, Alabama streams. *R. Brian Mosley*, Tyler Earwood, John McCall. The University of West Alabama.
- 12:00 LUNCH

SECTION I – BIOLOGICAL SCIENCES
Posters, Session II
Friday Afternoon
2nd Floor Hallway, Bibb Graves Hall
Authors Present: 1:00 -2:00 PM

- 33 Pulsed uv-light sterilization-a novel approach to eliminating e. coli 0157:h7 on raw meat surfaces. *Jacqueline U. Johnson*, Leonard L. Williams. Alabama A&M University. North Carolina A&T State University.
- 34 Study of protists in the Alabama, Apalachicola, Choctawhatchee, Tennessee, and Tombigbee Rivers. *Michael Turner*, Justin Kelley, Brian Burnes. The University of West Alabama.
- 35 Molecular analysis and antibiogram of coliforms isolated from river water serving a water treatment plant. *Iesha L. Barnes*, Benedict C. Okeke, Robson Andrezza, Sue Thomson. Auburn University at Montgomery.
- 36 Leptin evaluation and cytogenetic profiles to elucidate factors affecting reproductive performance of the crème d’argent – an endangered rabbit breed.

Jacqueline U. Johnson, Jasma McDonald, Ebony Weems, Adriel D. Johnson Sr.
Alabama A&M University, University of Alabama in Huntsville.

- 37 The ten most common autumn livestock poisoning plants of southeast Alabama.
Kaleb K. Dyess, Alvin R. Diamond. Troy University.
- 38 A floristic survey of selected sites in the Shoal Creek Ranger District, Talladega
National Forest, Alabama. *Michael Wayne Morris.* Troy University.
- 39 Human papillomavirus: a silent enemy. *Sandy C. Trail.* Jacksonville State
University.
- 40 Development and validation of semi-quantitative immunohistochemical assay for
expression of survivin protein. *Brooke Horton, Claire Midyette, Zachary Griffith,*
Peter Kulesza. University of Alabama at Birmingham.

SECTION I – BIOLOGICAL SCIENCES

Session IV

Friday Afternoon, 2:00 PM – 3:45 PM

Room 204, Bibb Graves Hall

Mickie Powell, Presiding

- 41 2:00 Microhabitat utilization of darters in Sicoloooca Creek, Sumter County. *Ayonna
Procter, Tighe Carlin, Jared Worthington, Stacey Hudnall, Lee Stanton, John
McCall.* The University of West Alabama.
- 42 2:15 Strength in numbers: status of the gray bat, *Myotis grisescens*, in North Alabama.
Patricia R. Miller, Ronald J. Miller, George O. Williams Jr.. Athens State
University.
- 43 2:30 Comparison of abundance of marine life species at St. Andrews State Park and
the Dry Tortugas National Park. *Livia R. Cara, Kristen B. King, Lindsay M.
Kirkland, James R. Rayburn, Frank A. Romano III.* Jacksonville State University.
- 2:45 INTERMISSION
- 44 3:00 Genetic variation in the Great Plains and Mid-western walleye populations.

Mahmoud Haytham Alami, Neil Billington, Sonia Lyle, Janet Gaston, Jiangquan Zhu. Troy University.

- 45 3:15 Unpaved road-stream crossing in Pike Country, AL, assessed by use of a sedimentation risk index (SRI). *Suman Chitrakar*, Neil Billington, Paul Michael Stewart. Troy University.
- 46 3:30 Genetic variation in Pike County, AL, Bald Cypress Populations. *Puja Shrestha*, Neil Billington, Michael Wayne Morris. Troy University.
- 47 3:45 Investigation of woody perennial flowering in *Populus deltoides* for training in functional genomics. *Ketia L. Shumaker*, Joseph Kennedy, Shaqoundra Williams, John Carlson. The University of West Alabama.

SECTION II – CHEMISTRY
Session I
Thursday Morning 9:00 –10:40 AM
Room 211, Bibb Graves Hall
Daniel Kim, Presiding

- *1. 9:00 The effect of temperature on the specific rotation of isoborneol and (s-)-(-)-endo borneol at a specific concentration – part ii, *Kristin D. Shirey* and Nagarajan Vasumathi, Jacksonville State University.
- *2. 9:20 Inhibition studies of anti-oxidants on staphylococcal nuclease oxidation. *Jovonna L Hassell*, Shernett R Schermer, and Yun Ho Kim, The University of West Alabama.
- *3. 9:40 Surface modification and characterization of poly-dimethyl-siloxane. *Padma Dharmarajan* and Emanuel Waddell, University of Alabama, Huntsville .
- 4. 10:00 Mechanistic study on the degradation of gasoline oxygenates by ultrasonic irradiation. *Daniel Kim*¹, Kevin E. O’Shea², William J. Cooper³, 1 Auburn University Montgomery, 2 Florida International University, 3 University of California Irvine.
- *5. 10:20 The antioxidant levels in various parts of mango fruit: effect of regional growth. *Ashley K Casey*, Jayne Lampley, and Nixon Mwebi, Jacksonville State University.

SECTION II – CHEMISTRY
Poster Session
Thursday Morning
2nd Floor Hallway, Bibb Graves Hall
Authors Present: 11:00 AM – 12:00 Noon

- 6. Fast food calories. *Chris Hornbuckle*, Livia Cara, Trisha Mantoath, and Alfred Nichols, Jacksonville State University.
- *7. Inhibitory effects and oxidative studies on sulfur-containing methionine. *Shernett R Schermer*, Jovonna L Hassell, and Yun Ho Kim, The University of West Alabama.
- 8. Structural studies of human mitochondrial aconitase: cloning and expression. *Margaret A Adams* and Harsimran Singh, University of Alabama, Tuscaloosa.
- *9. Synthesis of water-soluble phosphines and their application to recyclable, aqueous-phase palladium-catalysts. *Hannah K Box*, Dr. Kevin H Shaughnessy,

and William S Brown, University of Alabama.

10. The effects of tannins on free radicals. *Twaskia S. Johnson*, University of Alabama in Huntsville.
11. Mercury uptake by earthworms with a subacute exposure. *Alfred C. Nichols* and David A. Steffy, Dept. of Physical and Earth Sciences, Jacksonville State University.
- *12. Phytochemical Investigation of *Zanthoxylum setulosum*. *Tameka M. Walker* and William H. Setzer, University of Alabama in Huntsville.
- *13. Expression, isolation, and structural characterization of e. coli DNA repair enzyme MutM. *Drew Brooks* and Laura Busenlehner, University of Alabama, Tuscaloosa.

* Denotes presentation is entered in competition, Section II

SECTION III – EARTH SCIENCE

No Program in 2009

SECTION IV – GEOGRAPHY, FORESTRY, CONSERVATION, AND PLANNING

No Program in 2009

SECTION V – PHYSICS AND MATHEMATICS

Thursday Morning, 9:00 – 12:00 noon

Room 111, Bibb Graves Hall

Akshaya Kumar, Presiding

1. 9:00 Edgeworth expansion for linear regression processes with long-memory errors. *Mosisa G Aga*, Auburn University Montgomery.
2. 9:20 Electrostatics in n dimensions with associated examples. *Arjun Tan* and Matthew E. Edwards, Alabama A. & M. University.
3. 9:40 Location of zeros of polynomials. *Chadia Affane Aji*, Neha Agarwal, and Narendra K. Govil, Tuskegee University and Auburn University.
- *4. 10:00 Optical properties of rare earth doped glasses. *Hashim K. Samuel*, Akshaya Kumar and Prakash C. Sharma, Tuskegee University.
- *5. 10:20 Detection of human interleukin-8 (il-8) using a combination tapered fiber-optic biosensor probe. *Chun-Wei Wang* and Rakesh Kapoor, University of Alabama at Birmingham.
6. 10:40 Temperature effects on shock wave propagation in plasmas. *Nirmol K. Podder* and Aaron C. LoCascio, Troy University.
7. 11:00 Temperature measurement in a glow discharge plasma. *William E. McCurdy*, Nirmol K. Podder, Shi Shi, and Kenneth C. Sloneker, Troy University and Electronic Development Labs, Inc., Danville, VA.
8. 11:20 Analysis of trace elements in liquids using laser induced breakdown spectroscopy. *Akshaya Kumar* and Prakash C. Sharma, Tuskegee University.

11:40 BUSINESS MEETING

Elect a Vice Chair for 2009-2011 term

12:00 Noon LUNCH

SECTION V – PHYSICS AND MATHEMATICS

Poster Session

Thursday Afternoon

1st Floor Hallway, Bibb Graves Hall

Akshaya Kumar, Presiding

Authors Present: 2:00 - 3:00 PM

9. A theoretical calculation of charge carriers in doped semiconductors. *Akshaya Kumar* and Prakash C. Sharma, Tuskegee University.
- *10. Blankets and covers: finding covers with an arbitrarily large lowest modulus. *Amina Dozier*, Charles Fahringer, Martin Harrison, Jeremy Lyle, Neil Calkin, Kevin James, and Dave Penniston, Clemson University.
- *11. Fabrication and characteristics of organic vapor sensors based on binary metal oxides. *Jason Stephens*, A. K. Batra, Padmaja Guggilla, M. D. Aggarwal, M. E. Edwards, Alabama A&M University, and J. R. Currie, NASA-MSFC, Huntsville, AL.
- *12. Intruder detection using Manhattan metric. *Deirdre Watts*, Peter Slater, AGEP, University of Alabama in Huntsville.

* Denotes presentation is entered in competition.

SECTION VI – INDUSTRY AND ECONOMICS

Session I

Thursday Morning

Room 213, Wallace Hall

James G. Alexander, Presiding

1. 10:20 The future of the college textbook market. *Linda Carr*, The University of West Alabama.
 2. 10:40 Using the remote proctor to curb online cheating: professor and student attitudes toward the technology. *D. Wayne Bedford* and *Janie R. Gregg*, The University of West Alabama, and *M. Suzanne Clinton*, The University of Central Oklahoma.
 3. 11:00 University violence: are you safe at work? Identifying and correcting potential violence problems. *Janie R. Gregg*, The University of West Alabama, *Peter J. Gordon*, Southeast Missouri State University, and *M. Suzanne Clinton*, The University of Central Oklahoma.
 4. 11:20 Identifying and dealing with stress in the life of the college professor. *Janie Gregg*, *Mitzi Green*, *Sharon Stipe*, and *Martha Kent*, The University of West Alabama.
 5. 11:40 Tips for teaching Generation Y students: selected findings. *Marsha D. Griffin* and *James G. Alexander*, Alabama A&M University.
- 12:00 LUNCH AT UWA CAFETERIA

SECTION VI – INDUSTRY & ECONOMICS

Session II

Thursday Afternoon

Room 213, Wallace Hall

Marsha D. Griffin, Presiding

6. 1:40 Productivity and efficiency analysis in financial markets. *Joo Young Lee*, The University of West Alabama.
 7. 2:00 Is the party over for capitalism? *James G. Alexander* and *Marsha D. Griffin*, Alabama A&M University.
 8. 2:20 Keynes and the European Central Bank. *Howell Sheffield*, The University of West Alabama.
- 2:40 BUSINESS MEETING
- Elect a Chair and Vice Chair for 2009-2011 term

SECTION VII – SCIENCE EDUCATION

Friday Morning, 8:30 – 12:00 Noon

Room 211, Bibb Graves Hall

Karen Utz, Presiding

- 8:30 Introduction of Panelists
1. 8:45 Science studies in first-year composition. *Michelle Sidler*, Auburn University.
 2. 9:15 Teaching science and evolution in anthropology. *Bruce Panton Wheatley*, University of Alabama at Birmingham.
 3. 9:45 Science homework and parental involvement: factors influencing behaviors and attitudes. *Dana Rolison Harwell*, Kate Brown, Ann Caldwell, Walter Frazier, and Tony McGee, University of West Alabama.
 4. 10:15 Super-size it! A look at large-scale anatomy exhibits in informal science education. *James P Cormier*, Medical College of Georgia, Augusta, GA and Spring Valley School, Birmingham, AL.
 5. 10:45 Application of physical science concepts to the teaching of the social sciences. *Lawrence A. Brown*, Troy University Dothan.
 - *6. 11:15 The medical and social impact of cholera in the 19th century and beyond. *Heather Guy*, University of Alabama at Birmingham.

SECTION VII – SCIENCE EDUCATION

Poster Session

Friday Morning

Karen Utz, Presiding

2nd Floor Hallway, Bibb Graves Hall

Authors Present: 11:45 AM – 12:15 PM

7. Anthro-teach: developing scholar-teachers and student scientists using Alabama native American collections. *Loretta A. Cormier*, and Sharyn R. Jones, University of Alabama at Birmingham, Birmingham, AL 35294.
8. Bigger is better: a large-scale model of the human brain for informal science education. *James P. Cormier*, Medical College of Georgia and Spring Valley School, Birmingham, AL.

*Denotes presentation entered in competition

SECTION VIII – BEHAVIORAL AND SOCIAL SCIENCES

Thursday Afternoon

Room 111, Bibb Graves Hall

Richard A. Hudiburg, Presiding

1. 1:10 Theoretical perspectives to understand Korean American marital abuse. *Youn Mi Lee*, Mississippi University for Women.
- *2. 1:40 Perimortem and postmortem fracture patterns in deer femora. *Catherine Susan Wright*, University of Alabama at Birmingham.
3. 2:00 Voluntary police turnover: an assessment of the Selma police department. *Ralph E. Ioimo*, and Jeffrey E. Ioimo, Auburn University Montgomery.
- 2:20 **INTERMISSION - 1st Floor, Bibb Graves**
4. 2:30 Gender differences in perceptions of academic dishonesty: a comparison of students and faculty perceptions. Margaret A. Mbilizi, Northern Illinois University, *Uchenna N. Akpom*, Tarrant County College, and Chris C. Obi, Federal College of Education (Technical), Asaba, Delta State, Nigeria.
5. 2:50 Application of Physical Science Concepts to the Teaching of the Social Sciences. *Lawrence A. Brown*, Troy University – Dothan.
6. 3:10 Religious fundamentalism and taboos: attentional bias and psychophysiological effects. Joseph Castillo, Elizabeth Kelley, Joshua Holland, Deanna Rumble, William Ballew, Trent Walters, Whitney Thompson, Tiffany Wood, Kristen Fowler, Claire Bennett, Larry Bates, and *Richard A. Hudiburg*, University of North Alabama.
- 3:35 **BUSINESS MEETING**

Elect a Chair and Vice Chair for 2009-2011 term

SECTION VIII – BEHAVIORAL AND SOCIAL SCIENCES

Poster Session

Thursday Afternoon

1st Floor Hallway, Bibb Graves Hall

Authors Present: 4:00 – 4:30 PM

7. Analysis of factors associated with the potential municipal bankruptcy of Jefferson County, Alabama. *Christopher Robin Kelley*, Auburn University.
- *8. By what mechanisms do persons with autism spectrum disorders learn a lexicon? *Dana Schuller Smith*, University of Alabama at Birmingham.

* Denotes presentation is entered in the student competition

SECTION IX – HEALTH SCIENCES

Thursday Morning

Room 204, Bibb Graves Hall

Bettina Riley, Presiding

1. 9:00 A case study review correlating functional gastrointestinal diseases with psychological symptom dimensions. *Bryce L. Roberts* and Carol A. Leitner, School of Public Health, University of Alabama at Birmingham.
2. 9:15 Perspective transformation in RN to BSN students. *Arlene H. Morris*, and Debbie R. Faulk, Auburn University Montgomery.
- 3.* 9:30 Organizational support, perceived social support, and intent to turnover among psychiatric nurses: a mixed-methods study. *Beverly J. Myers*, Kathleen C. Brown, Andres Azuero, School of Nursing, University of Alabama at Birmingham, Nataliya V. Ivankova, School of Education, and Henry Robertson, School of Public Health, University of Alabama at Birmingham.
- 4.* 9:45 Disaster response in Alabama: state of emergency department preparedness for terrorist attacks and natural disasters. *Corinne Jillian Wojner*, University of Alabama at Birmingham.
- 5.* 10:00 Vegetation assessment in Kenya for cost effective malaria outbreak prevention. *Nathan C. Renneboog*, Sarah Parcak and Benjamin Jacob, University of Alabama at Birmingham.

10:15 INTERMISSION & BUSINESS MEEING

Elect a Vice Chair for 2009-2011 term

6. 10:45 Evidence-based protocol to decrease the occurrence of healthcare associated postoperative surgical site infections. *John M. Martin*, University of South Alabama.
- 7.* 11:00 Health literacy and diabetic outcomes in a rural Alabama setting. *Matthew Eric Stine*, University of Alabama at Birmingham.
- 8.* 11:15 Spatial analysis of West Nile virus: predictive risk modeling of a vector-borne infectious disease in central Alabama by means of NASA earth observation systems. *Nathan C. Renneboog*, David A. Gathings, Emmanuel Makasa, Catherine S. Wright, Meghan Tipre, Marilyn McAllister, Sarah Hemmings, and Wigdan Omer, University of Alabama at Birmingham.
- 9.* 11:30 Facilitators and barriers to living kidney donation in African Americans: a comparison of pre- and post-transplant perspectives. *Stephanie J. Ensminger* and Ellen Buckner, School of Nursing, University of Alabama at Birmingham.

SECTION IX – HEALTH SCIENCES
Poster Session
Thursday Morning
2nd Floor Hallway, Bibb Graves Hall
Authors Present 11:45 AM – 12:15 PM

10. A retrospective epidemiology study of drain cleaner accidents in the United States. *Ronald N. Hunsinger* and Joy J. Al-Massaad, Samford University.
- 11.* Differences in the rate of cavity development among breast-fed children versus bottle-fed children. *LaTigra S. Houston*, Tracy Duckworth, Tiffany Simmons, and John McCall, The University of West Alabama.
- 12.* A clinical ladder revision based on the evidence. *Valorie A. Dearmon*, College of Nursing, University of South Alabama, and Ellen Buckner, School of Nursing, University of Alabama at Birmingham.
- 12:15 PM LUNCH AT UWA CAFETERIA
- 12:45 AAS GROUP PICTURE

*Denotes presentation is entered in competition

SECTION X – ENGINEERING AND COMPUTER SCIENCE
Thursday Morning, 8:30 – 10:45 AM
Room 106, Bibb Graves Hall
Brian Toone, Presiding

- *1. 8:30 A method for semantics-based conceptual expansion of ontology. *Liping Zhou, Dezheng Zhang, Xin Chen, and Chengcui Zhang, University of Alabama at Birmingham.*
- 2. 8:50 Design and fabrication of a research flight simulator. *Harold Zallen, and James J. Baird, Jr., Joint Research Project with Malone Group International and Auburn University.*
- *3. 9:10 Extracting coexpression relations between genes using grammatical parsing. *Richa Tiwari, University of Alabama at Birmingham.*
- 4. 9:30 Jibu: a tool for efficient and reliable concurrent programming. *Srinivasarao Krishnaprasad, Jacksonville State University.*
- *5. 9:50 Kinematic structure and evolution of the 9 march 2006 Mississippi/Alabama bow echo. *Calvin M Elkins, University of Alabama in Huntsville.*
- 6. 10:10 Metamodel recovery system using grammar inference. *Qichao Liu, University of Alabama at Birmingham.*

10:30 BUSINESS MEETING

Elect a Vice-Chair for 2009-2011 term

*Denotes presentation is entered in competition

SECTION XI – ANTHROPOLOGY
Friday Afternoon, 1:00 – 3:20 PM
Room 111, Bibb Graves Hall
Harry Holstein Presiding

- 1:00 Welcome. *Harry Holstein*
1. 1:05 East Alabama and the Second Creek War. *Hamilton Hastie Bryant III*, Auburn University.
 2. 1:20 Stonewall Plantation. *Ashley Stewart*, Auburn University.
 3. 1:30 Cannibalism in Fiji? *Sharyn Jones*, University of Alabama at Birmingham.
 - *4. 1:45 Spontaneous order and structural change in Salem, Alabama (1907-1939). *John A. Gullatte*, Dept of Anthropology, Auburn University.
 5. 1:55 Provenience, procurement and production: understanding lithic source use from a woodland site in Wilcox County, Alabama. *Mary Lee Glass*, Dept. of Anthropology, Auburn University.
 6. 2:10 The historical ecology and wild primate vivax-type malarias in Amazonia. *Loretta A. Cormier*, Dept. of Anthropology and Social Work, University of Alabama at Birmingham.
 7. 2:25 Initial observations: the occurrence of lamar complicated stamp and carthage incised in protohistoric structures at Hickory Ground. *Cameron W. Gill*, Dept. of Anthropology, Auburn University.
 8. 2:40 Agency in action: The public architecture at Hickory Ground. *John W. Cottier*, Dept. of Sociology and Anthropology, Auburn University.
 9. 2:55 Bains Gap site, archaeological investigations from 1999-2008. *Harry O. Holstein*, Dept. of Physical and Earth Sciences, Jacksonville State University.
- 3:15 Closing Remarks, *Harry Holstein*

*Denotes presentation is entered in competition

SECTION XII – BIOETHICS & HISTORY & PHILOSOPHY OF SCIENCE

Friday Afternoon, 1:00 – 4:15 PM

Room 211, Bibb Graves Hall

Michelle A. Sidler, Presiding

1. 1:00 **Plenary Speaker**— Synthetic Biology: A “Synbio-Ethics” Needed. *James Bradley*, Auburn University.
2. 1:30 Proactive ethics: Rethinking the relation of ethics to science. *Leonard Ortman*, Tuskegee University National Center for Bioethics.
3. 2:00 After the double helix...What?. *Gerard Elfstrom*, Auburn University.
- *4. 2:40 The development of personhood. *Samuel Hirt*, Auburn University.
- 2:50 INTERMISSION
5. 3:05 After Boundaries, Dichotomies, and Such: Some contemporary bioethical perspectives on the history and philosophy of science. *Connie Price*, Tuskegee University.
- *6. 3:35 Forgetting the dead: Philosophy of digital epitaphs and memory in the 21st century, *Trisha N. Campbell*, Auburn University.
7. 3:45 Technology and transition: Changing methods for scientific research. *Michelle A. Sidler*, Auburn University.
- 3:55 BUSINESS MEETING
Elect a Vice Chair for 2009-2011 term

*Denotes presentation is entered in competition

OBJECTIVES OF THE ALABAMA ACADEMY OF SCIENCE

The objectives of the Academy are to:

- Promote the development of interest in scientific matters in the state,
- Provide means for publication of papers and abstracts,
- Provide opportunity for increased cooperation and fellowship among its members,
- Cooperate with other organizations having similar aims,
- Render public service in scientific matters,
- Promote the interest in and study of science by the youth of Alabama,
- Provide for and award scholarships to deserving youth of Alabama.

In fulfilling these objectives, the Academy is devoted to nearly all aspects of science and science education.

EDUCATIONAL ACTIVITIES OF THE ACADEMY

The Academy sponsors

- Alabama Junior Academy of Science, a statewide organization of high school science clubs
- Junior Science and Humanities Symposium, an activity supported by the United States Army, U.S. Navy, U.S. Air Force, and the U.S. Coast Guard
- Seven Regional Science Fairs at which high school students exhibit the results of their research or study projects. Regional Finalists compete in the Alabama State Science & Engineering Fair. Winners go to the International Science and Engineering Fair (ISEF)
- Science Olympiads in which regional winners compete at the state level. Alabama winners go to the National Competition.
- Visiting Scientist Network in which volunteer members, upon invitation by a teacher, go to high schools to present talks, demonstrations, or workshops
- Travel grants to enable students to attend the annual meetings where they can present their research results in the Student Research Award Competition
- Research grants to enable students to carry out mentored research
- Annual Science Teacher Fellowships (\$1,000) to individuals in the fifth year program leading to Class A certification.

2009 REGIONAL SCIENCE FAIRS

- N Alabama March 4-6 University of Alabama in Huntsville, contact: Dr. Phil Farrington, Interim Dean, UAH College of Engineering, dean@eng.uah.edu; web site: www.narsef.uah.edu
- W Alabama March 13-14 The University of West Alabama, Tracy Duckworth, Dept. of Biology, Station 7, The Univ. of West Alabama, Livingston, AL 35470, (205) 652-3732, twduckworth@uwa.edu
- Central March 7 University of Alabama at Birmingham, Jarrod W. Lockhart, UAB-CORD, (205) 934-5171, jabbo@uab.edu, web site: www.uab.edu/images/cord/CRSEF/
- Mobile March 27-28 University of South Alabama, James J. Connors, (251) 460-7575, jconnors@usouthal.edu; web site: <http://www.southalabama.edu/mrsf/>
- Greater East March 12 Auburn University, Ms. Emma Seiler, ees001@auburn.edu

2009 ALABAMA STATE SCIENCE AND ENGINEERING FAIR

April 2 – 4, The University of Alabama in Huntsville; Coordinator, Donald Perkey, Department of Atmospheric Science, (256) 961-7734, donald.perkey@uah.edu.

Alabama Science and Engineering Fair web site: <http://www.uah.edu/ASEF/asef.htm>

2009 INTERNATIONAL SCIENCE AND ENGINEERING FAIR

An activity of Intel Science Service, 1719 N Street, NW, Washington, DC 20036, (202) 785-2255, FAX (202) 785-1243. Internet: <http://www.sciserv.org/isef/>. The Intel 2009 ISEF will be May 10-16, 2009 in Reno, NV. Virginia Vilardi, State Coordinator, 1251 Coosa River Parkway, Wetumpka H. S., 36092, (334) 567-5158, Cell, (334) 799-0104, FAX (334) 567-1178, (H) (334) 514-1770, Virginia.vilardi@elmore.k12.al.us.

ALABAMA SCIENCE OLYMPIAD 2008-2009

Division A2 Grades 3-6 Olympiad Tournaments

University of West Alabama, October 21, 2008. Grades 3-6, Tracy Duckworth, Department of Biology, The Univ. of West Alabama, Station 7, Livingston, AL 35470. (205) 652-3732, twduckworth@uwa.edu; <http://eso.uwa.edu/>

Jacksonville High School, February 21, 2009. Grades 3-6, David Peters, 1000 George Douthit Drive SW, Jacksonville, AL 36265 (256) 435-4177, www.esoatjhs.org

Auburn University, March 28, 2009. Grades 3-6, Greg Harris, Department of Mathematics, 218 Parker Hall, Auburn, AL 36830 harriga@auburn.edu; <http://www.auburn.edu/%7Eharriga/olympiad/>

Division B Grades 6-9 Olympiad Tournaments

University of Alabama, February 28, 2009. Kevin Whitaker, Coordinator, kwhitaker@eng.ua.edu (205) 348-1598. Dr. Milt Ward, Co-Coordinator, mward@as.ua.edu (205) 348-7007; http://www.as.ua.edu/public/deans_office/ward/science_olympiad/

Auburn University, February 28, 2009, Dr. Steve Stuckwisch, Department of Geology, 108 Tichenor Hall, Auburn University, AL 36830. (251) 844-6575 sstuckwisch@charter.net; <http://www.auburn.edu/~stuckse/ScienceOlympiad/>

University of Alabama at Huntsville, February 28, 2009, <http://www.uah.edu/sciolympiad/index.php>

University of South Alabama, February 7, 2009, Dr. Cindy Stanfield, Dept. of Biomedical Science, UCOM 6000, Univ. of South Alabama, Mobile, AL 36608 (251) 380-2710 cthursto@usouthal.edu, <http://www.southalabama.edu/alliedhealth/biomedical/SO/Index.htm>

Division C Grades 9-12 Olympiad Tournaments

University of Alabama, February 28, 2009. Kevin Whitaker, Coordinator, kwhitaker@eng.ua.edu (205) 348-1598. Dr. Milt Ward, Co-Coordinator, mward@as.ua.edu (205) 348-7007; http://www.as.ua.edu/public/deans_office/ward/science_olympiad/

University of Alabama at Huntsville, February 28, 2009. <http://www.uah.edu/sciolympiad/index.php>

University of South Alabama, February 7, 2009. Dr. Cindy Stanfield, Dept. of Biomedical Science, UCOM 6000, Univ. of South Alabama, Mobile, AL 36608

(251) 380-2710 cthursto@usouthal.edu,
www.southalabama.edu/alliedhealth/medical/SO/index.htm

State Science Olympiad Tournaments

Huntingdon College, March 14, 2009. Division B, Dr. Sidney Stubbs, 1500 E Fairview Ave, Montgomery, AL 36106 (334) 833-4430. sstubbs@huntingdon.edu
http://216.186.205.33/scienceolympiad/default_frame.html

Jacksonville State University, April 25, 2009. Division C, Dr. Robert Carter, Jacksonville State University, 700 N Pelham Rd, Jacksonville, AL 36265. (256) 782-5144, rcarter@jsu.edu.

National Science Olympiad Tournament

Augusta State University, May 15-16, 2009. Augusta, GA, <http://www.aug.edu/nso/>

State Director: Jane Nall, 31110 Wakefield Drive, Spanish Fort, AL 36527 (251) 621-2911, email drnall@hotmail.com

Alabama Science Olympiad web page: <http://aso.jsu.edu/>

National Science Olympiad web page: <http://soinc.org/about>

WILLIAM H. MASON SCIENCE TEACHER FELLOWSHIPS

The William H. Mason Science Teacher Fellowship Fund honors the late Dr. Mason's dedication and leadership in the Academy. Contributions to support this fund may be sent to Dr. Taba Hamissou, Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, Treasurer, AAS. Gifts are tax deductible. Dr. Michael B. Moeller serves as Chair of the Mason Science Teacher Fellowship Committee, UNA, Box 5049, (256) 765-4479, mbmoeller@una.edu.

Downloadable applications and further information can be found on the Academy web site, www.alabamaacademyofscience.org.

Fellowships have been awarded to the following individuals:

- 1990 - 1991 Mrs. Amy Livengood Sumner, UAB
- 1991 - 1992 Mrs. Leella Holt, UNA.
- 1992 - 1993 Mrs. Joni Justice Shanklee, Samford University.
- 1993 - 1994 Jeffrey Baumbach, Auburn University.
- 1994 - 1995 Not Awarded.
- 1995 - 1996 Laura West Cochran, University of Montevallo.
- 1996 - 1997 Tina Anne Beams, UA.
- 1997 - 1998 Carole Collins Crabbe Clegg, UAB
- 1998 - 1999 Cynthia Ann Phillips, UNA
- 1999 - 2000 Ruth Borden, UAB
- 2000 - 2001 Amy K. Murphy, UAB, Karen L. Celestine, AL A&M
- 2001 - 2002 Jeannine Ott, Eubanks, Auburn University
- 2002 - 2003 Not Awarded
- 2003 - 2004 Kanessa Miller, Auburn University
- 2004 - 2005 Not Awarded
- 2005 - 2006 Mary Busbee, UAB, and Bethany Knox, UAB
- 2006 - 2007 Kelly Harbin, UAB
- 2007 - 2008 Michael Hallman, UA
- 2008 - 2009 Sherri Sanders Grosso, UNA

WRIGHT A. GARDNER AWARDEES

Recipients Are Selected For Their Outstanding Contributions to Science While in Residence in Alabama

- 1984 Robert P. Bauman, Physics, University of Alabama at Birmingham
- 1985 Nolan E. Richards, Research Scientist, Reynolds Metals Company, Sheffield
- 1986 S. T. Wu, Mechanical Engineering and Aeronautic Research, University of Alabama in Huntsville
- 1987 Herbert H. Winkler, Microbiology, University of South Alabama
- 1988 Richard W. Compans, Microbiology and Senior Scientist, University of Alabama at Birmingham
- 1990 Max Cooper, Medicine and Immunology, University of Alabama at Birmingham
- 1991 Dan Urry, Biochemistry, University of Alabama at Birmingham
- 1992 Gail Cassell, Microbiology, University of Alabama at Birmingham

- 1994 Frank Rose, Electrical Engineering, Space Power Institute, Auburn University
- 1996 Prakash Sharma, Physics, Tuskegee University
- 1997 Robert E. Pieroni, Internal and Family Medicine, University of Alabama, Tuscaloosa
- 1998 Thomas J. Wdowiak, Physics and Space Exploration, University of Alabama at Birmingham
- 1999 Samuel B. Barker, Physiology, and Dean Emeritus, University of Alabama at Birmingham
- 2000 George Crozier, Dauphin Island Sea Lab, Mobile
- 2001 James B. McClintock, University of Alabama at Birmingham
- 2002 Sara C. & Wayne H. Finley, University of Alabama at Birmingham Medical School
- 2003 Leven S. Hazlegrove, Samford University, Executive Director, Alabama Academy of Science
- 2004 William J. Barrett, Southern Research Institute, Retired, Birmingham
- 2005 Eugene Omasta, Professor Emeritus, Troy University.
- 2006 Dan Holliman, Professor Emeritus, Birmingham Southern College
- 2007 No award

FELLOWS OF THE ALABAMA ACADEMY OF SCIENCE

- 2007 Ellen Buckner (University of Alabama at Birmingham), Leven Hazlegrove (Samford University), Richard Hudiburg (University of North Alabama), Larry Krannich (University of Alabama at Birmingham), Eugene Omasta (Troy University), Prakash Sharma (Tuskegee University).
- 2008 Ram B. Gupta (Auburn University), Harry O. Holstein (Jacksonville State University), Adriane G. Ludwick (Tuskegee University), Ken Marion (University of Alabama at Birmingham), Michael B. Moeller (University of North Alabama)

SECTION OFFICERS, 2008-2009

Section I: Biological Sciences

Mickie Powell, Chair, (2009) Dept. of Biology, Univ. of Alabama at Birmingham, Birmingham. AL 35294, (205) 934-8313, mpowell@uab.edu.

Megan Gibbons, Vice Chair, (2009) Dept. of Biology, Birmingham-Southern College, Birmingham. AL 35254, (205) 226-3078, mgibbons@bsc.edu.

Section II: Chemistry

Daniel Kim, Chair, (2010) School of Science, Auburn Univ. Montgomery, Montgomery. AL 36124, (234) 244-3329, dkim@mail.aum.edu.

Emanuel Waddell, Vice Chair, (2010) Dept. of Chemistry, John Wright Drive, Univ. of Alabama in Huntsville, Huntsville. AL 35899, (256) 824-2695, ewaddell@chemistry.uah.edu.

Section III: Earth Science

Mark Puckett, Chair, (2008) Dept. of Earth Science, Univ. of North Alabama, Florence. AL 35632, (256) 765-4481, tmpuckett@una.edu.

Vice Chair, vacant

Section IV: Geography, Forestry, Conservation, and Planning

Chair, vacant

Vice Chair, vacant.

Section V: Physics and Mathematics

Akshaya Kumar, Chair, (2008) Dept. of Physics, Tuskegee Univ., Tuskegee. AL 36088, (334) 727-8968, akumar@tuskegee.edu.

Nirmol Podder, Vice Chair, (2008) Dept. of Mathematics & Physics, Troy Univ., Troy. AL 36081, (334) 670-3409, npodder@troy.edu.

Section VI: Industry and Economics

Marsha Griffin, Chair, (2008) Dept. of Management and Marketing, Alabama A&M Univ., Normal. AL 35762, (256) 372-4798, marsh_dawn_griffin@yahoo.com or marsha.griffin@aamu.edu.

Vice Chair, vacant

Section VII: Science Education

Karen Utz, Chair, (2010) Sloss Furnace Nat'l Historic Landmark, 20 32nd Street North, Birmingham. AL 35222, (205) 324-1011, karenutz@slossfurnaces.com.

Janet Gaston, Vice Chair, (2010) Biological and Env. Sciences, 210C McCall Hall, Troy Univ., Troy. AL 36081, (334) 670-5659, jgaston@troy.edu.

Section VIII: Behavioral and Social Sciences

Richard Hudiburg, Chair, (2008) Dept. of Psychology, Univ. of North Alabama, Box 5187, Florence. AL 35632, (256) 765-4572, rahudiburg@una.edu.

Saramma Mathew, Vice Chair, (2008) College of Education, Troy Univ., Troy. AL 36082, (334) 670-3362, amathew@troy.edu.

Section IX: Health Sciences

Bettina Riley, Chair, (2010) School of Nursing, Univ. of Alabama at Birmingham, Birmingham. AL 35294, (205) 908-0005, TRiley7655@aol.com.

Vice Chair, vacant

Section X: Engineering and Computer Science

Brian Toone, Chair, (2009) Dept. of Computer Sci., Samford Univ., Birmingham. AL 35229, (205) 726-2960, brtoone@samford.edu.

David Thornton, Vice Chair, (2009) Dept. of Computer Sci., Jacksonville State Univ., Jacksonville. AL 36265, (256) 782-5359, thornton@jsu.edu.

Section XI: Anthropology

Harry Holstein, Chair, Dept. of Geography, Jacksonville State Univ., Jacksonville. AL 36265, (256) 782-5656, holstein@jsu.edu.

Phillip Koerper, Vice Chair, Dept. of History, Jacksonville State Univ., Jacksonville. AL 36265, (256) 782-5604, pkoerper@jsu.edu.

Section XII: Bioethics and History and Philosophy of Science

Michelle Ann Sidler, Chair, (2009) English Department, Auburn Univ., Auburn. AL 36849, (334) 844-9072, sidlema@auburn.edu.

Gerry Elfstrom, Vice Chair, (2009) Philosophy Department, Auburn Univ., Auburn. AL 36849, (334) 885-3785, elfstga@auburn.edu.

ELECTED OFFICERS, 2008-2009

President: Kenneth Roblee (2009), Dept of Mathematics , Troy University, Troy, Alabama 36081, (334) 670-3549, kroblee@troy.edu

President-Elect: Brian Thompson (2009), Dept. of Physics, University of North Alabama, Box 5112, Florence, AL 35632, (256) 765-4881, dbthompson@una.edu

Second Vice-President: Brian Burnes (2009), Dept. of Biology, University of West Alabama, Livingston, AL 35470, (205) 652-3442, bburnes@uwa.edu

Secretary: James Rayburn (2009), Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5803, jrayburn@jsu.edu

Treasurer: Taba Hamissou (2009), Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5040, taba@jsu.edu

Editor: Safaa Al-Hamdani, (2009) Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5801, sah@jsu.edu

State Counselor to the Junior Academy: B.J. Bateman (2009), Dept. of Math and Physics, Troy University, Troy, AL 36082, (334) 670–3572, bbateman@troy.edu

Associate Counselor to the Junior Academy: Henry L. Barwood (2009), Dept. of Math and Physics, Troy University, Troy, AL 36082, (334) 670–3574, hbarwood@troy.edu

Associate Counselor to the Junior Academy: Wanda Phillips (2009), Brooks High School, 4300 Highway 72, Killen, AL 35645, (256) 757-2115

Coordinator of State Science Fairs: Virginia Valardi (2009), Wetumpka High School, 1251 Coosa River Parkway, Wetumpka, AL 36092, (334) 799-0104 , home (334) 514-1770, virginia.vilardi@elmore.k12.al.us

Coordinator of State Science Olympiad: Jane D. Nall (2009), 31110 Wakefield Drive, Spanish Fort, AL 36527, (251) 621–2911, drnall@hotmail.com

AAAS Representative: Stephen Watts (2011), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, (205) 934–2045, sawatts@uab.edu

Executive Director: Larry Krannich, Dept. of Chemistry, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-8017, krannich@uab.edu

TRUSTEES:

- Ken Marion (2011), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, kmarion@uab.edu
- Prakash Sharma (2011), Dept. of Physics, Tuskegee University, Tuskegee, AL 36088, (334) 727-8998, pcsharma@tuskegee.edu
- James Bradley (2011), Dept. of Biological Sciences, Auburn University, Auburn, AL 36849, bradljt@auburn.edu

- David Nelson (2011) , Dept. of Biology, University of South Alabama, Mobile, AL 36688, (252) 460-6331, dnelson@usouthal.edu
- Brian Burns (2010), Dept. of Biology, University of West Alabama, Livingston, AL 35470, (205) 652-3442, bburnes@uwa.edu
- Roland Dute (2010), Dept. of Biological Sciences, Auburn University, Auburn, AL 36849 duterol@auburn.edu
- Richard Hudiburg (2010), Dept. of Psychology, University of North Alabama, Box 5187, Florence, AL 35632, (256) 765-4572, rahudiburg@una.edu
- Adriane Ludwick (2010), Dept. of Chemistry, Tuskegee University, Tuskegee, AL 36088, aludwick@tuskegee.edu
- B.J. Bateman (2009), Dept. of Math and Physics, Troy State University, Troy, AL 36082, bbateman@troy.edu
- Ellen B. Buckner (2009), 204 School of Nursing, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-6799, bucknere@uab.edu
- Stephen Watts (2009), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, (205) 934–2045, sawatts@uab.edu
- Anne Cusic (2009), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, (205) 934-9686 acusic@uab.edu

APPOINTED COMMITTEES, 2008-2009

Archives:

- Troy L. Best (2009), Department of Biological Sciences, 331 Funchess Hall, Auburn University, Auburn, AL 36849-5414, (334) 844-9260, besttro@auburn.edu

Auditing (1 year)

Senior Academy:

- Robert Angus (2010) Department of Biology, University of Alabama at Birmingham, Birmingham, AL 35294-1170 (205) 934-4799, raangus@uab.edu

Junior Academy:

- Henry Barwood. (2010), Department of Mathematics and Physics, Troy University, Troy, AL 36081. (334) 670-3924. hbarwood@troy.edu
- Govind Menon (2010), Department of Mathematics and Physics, Troy University, Troy, AL 36081. (334) 670-3924. gmenon@troy.edu

Budget and Finance:

- Trustee: Ken Marion, Chair (2011), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294-1170, kmarion@uab.edu
- Trustee: Ellen Buckner (2009) 204 School of Nursing, University of Alabama at Birmingham, Birmingham, AL 35294-1210 bucknere@uab.edu
- President: Kenneth Roblee (2009), Dept of Mathematics , Troy University, Troy, Alabama 36081, (334) 670-3549, kroblee@troy.edu
- President-elect: D. Brian Thompson (2009) Dept. of Physics, University of North Alabama, Box 5112, Florence, AL 35632, (256) 765-4881, dbthompson@una.edu
- Secretary: James Rayburn (2009), Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5803, jrayburn@jsu.edu
- Treasurer: Mijitaba Hamissou (2009), Biology Department, Martin Hall, 700 Pelham Rd., Jacksonville State University, Jacksonville, AL 36265; (256) 782-5040; taba@jsucc.jsu.edu.
- Counselor to the Junior Academy: B. J. Bateman, (2009), Physical Sciences Department, Troy University, Troy, AL 36082 bbateman@troy.edu
- Academy Representative (2 yr term): vacant
- Executive Director: Larry Krannich, Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-8017 krannich@uab.edu

Editorial Board: (staggered 3-yr terms)

- Thane Wibbels, Chair, (2009) Department of Biology, CH 255A, University of Alabama at Birmingham, Birmingham, AL 35294 (205) 934-4419 twibbels@uab.edu
- David Myer (2010), English Department, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5464, dmyer@jsu.edu
- Prakash Sharma (2011), Dept. of Physics, Tuskegee University, Tuskegee, AL 36088, psharma@tuskegee.edu

Electronic Media: (3-yr terms)

- Brian Toone (2012), (Editor), Department of Computer Science, Samford University, Birmingham, AL 35229, (205)726-2960, brtoone@samford.edu
- Richard Hudiburg, (2011), (Associate Editor), Dept. of Psychology, University of North Alabama, Box 5187, Florence, AL 35632, (256) 765-4572, rahudiburg@una.edu
- Marietta Cameron (2010), (Associate Editor)Department of Computer Science, Birmingham-Southern College, Birmingham, AL 35254 (205) 226-3040, mcameron@bsc.edu

Emmett B. Carmichael Award: (staggered 2-yr terms)

- Richard Hudiburg, Chair, (2009) Dept. of Psychology, University of North Alabama, Box 5187, Florence, AL 35632; (256) 765-4572, rahudiburg@una.edu
- Linda Reed (2010), School of Nursing, University of Alabama at Birmingham, Birmingham, AL 35294-1210, (205) 934-6835, reedl@son.uab.edu
- Robert E. Pitt (2010), Engineering, Civil & Environmental, University of Alabama, PO Box 870205, Tuscaloosa, AL 35487, rpitt@coe.eng.ua.edu
- Safaa Al-Hamdani, Editor, Department of Biology, Jacksonville State University, Jacksonville, AL 36265, (256) 782-5801, sah@jsu.edu (ex-officio)
- James Bradley (2009), Dept. of Biological Sciences, Auburn University, Auburn, Alabama 36849, (334) 844-9262, bradljt@auburn.edu

Gorgas Scholarship Program: (staggered 3-yr terms)

- Ellen B. Buckner, Co-chair, 204 School of Nursing, UAB, University Station, Birmingham, AL 35294-1210, (205) 934-6799, bucknere@uab.edu
- Larry K. Krannich, Co-chair. Dept. of Chemistry, University of Alabama at Birmingham, Birmingham, AL 35294 (205) 934-8017, krannich@uab.edu
- Vacant
- Elizabeth G. Dobbins (2010), Dept. of Biology, Samford University, 800 Lakeshore Drive, Birmingham, AL 35229 (205) 726-2937, egdobbin@samford.edu
- Leven Hazlegrove (2009), Samford University, Retired, 208 Rockaway Road, Birmingham, AL 35204-6626 (205) 879-0004, rockaway208@juno.com
- David H. Nelson (2010), Dept. of Biology, University of South Alabama, Mobile, AL 36688 (256) 460-6331, dnelson@usouthal.edu
- P. C. Sharma (2011), Dept. of Physics, Tuskegee University, Tuskegee, AL 36088, (334) 727-8998, pcsharma@tuskegee.edu
- Diane Tucker (2011), Science and Technology Honors Program, Univ. of Alabama at Birmingham, Birmingham, AL 35294 (205) 934-3850, dtucker@uab.edu
- Ex Officio: Kay Worley, J.D., Alabama Power Foundation, 600 North 18th Street, Birmingham, AL 35203, kiworley@southernco.com

Junior Academy:

- B.J. Bateman, Chair, (2009), Physical Sciences Department, Troy University, Troy, AL 36082, (334) 670-3572. bbateman@troy.edu
- Wanda Phillips (2009), Brooks High School, Rt. 4, Box 428, Killen, AL 35645

Regional Counselors:

North Melanie Hanson, Johnson High School, 6201 Pueblo Dr. NW, Huntsville, AL 35810, (256) 428-8100 (O) (256) 882-7872 (H)

North East ---

North West Linda Kanipe, Coffee High School, Florence, AL. 35630, (256) 764-7452 (O), (256) 764-2947 (H)

Central Paula Beeton, Jefferson Country International Baccalaureate School, 6100 Old Leeds Rd., Irondale, AL 35210, (205) 379-5350
Jim Johnson, The Altamont School, 4801 Altamont Road, Birmingham, AL 35222 (205) 879-2006

South Central ---

West Cynthia Phillips, 607 Hwy 80 W, Demopolis, AL 36732, (256) 289-8777

South East Donnie Hatcher, P.O. Box 90, Tuskegee, AL 36083, (Home) 2405 Charles, (334) 727-1600 ext (O): 232, (334) 727-6533 (H)

South ---

Mobile Jane Nall, (Acting Regional Counselor) 31110 Wakefield Dr., Spanish Fort, AL 36527 (251) 621-2911, drnall@hotmail.com

Local Arrangements at University of West Alabama:

- Brian Burnes, Local Chair, Dept. of Biology, University of West Alabama, bburnes@uwa.edu
- Richard Holland, President, University Liaison Officer, Office of the President, University of West Alabama, rholland@uwa.edu
- Brian Burnes, AAS Program Coordinator, Dept. of Biology, University of West Alabama, bburnes@uwa.edu
- John McCall, AJAS Program Coordinator, Dept. of Biology, University of West Alabama, jmccall@uwa.edu
- Jeffery Merida, Gorgas Program Coordinator, Dept. of Biology, University of West Alabama, jmerida@uwa.edu
- Christi George, Registration, Information Systems, University of West Alabama, cjw@uwa.edu
- Ellen Buckner, Gorgas Scholarship Competition, School of Nursing, University of Alabama at Birmingham, bucknere@uab.edu
- Lee Stanton, Parking & Traffic Coordinator, Dept. of Biology, University of West Alabama, lstanton@uwa.edu
- Doug Wymer, Poster Coordinator, Dept. of Biology, University of West Alabama, dwymer@uwa.edu
- Christi George, Publicity/Web Master Coordinator, Information Systems, University of West Alabama, cjw@uwa.edu
- Information Systems Staff, Audiovisual/Computers, cjw@uwa.edu

Long Range Planning: (staggered 4-yr terms, committee elects chair)

- Adriane Ludwick (2012) Chair, Dept. of Chemistry, Tuskegee University, Tuskegee, AL 36088, aludwick@tuskegee.edu
- Anne Cusic (2009), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294-1170, (205) 934-9686, acusic@uab.edu
- Ken Marion (2010), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294-1170, kmarion@uab.edu
- Eugene Omasta (2011), 113 Dendron Ave., Troy, AL 36081, eomasta@troy.edu

Mason Scholarship: (Staggered 3-year terms)

- Michael B. Moeller, Chair, (2011), Dept. of Chemistry, University of North Alabama, Box 5049, Florence, AL 35632, (256) 765-4479, mbmoeller@una.edu
- Charles Eick (2012), Department of Curriculum and Teaching, 5058 Haley Center, Auburn University, Auburn, Alabama 36849, (334) 844-6887, eickcha@auburn.edu
- Lori Cormier, (2010), Department of Anthropology, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 975-6529, lcormier@uab.edu
- Jane Roy, (2009), School of Education, UAB, EB 232N, Birmingham, AL 35294-1250, (205) 934-1757, jroy@uab.edu

Membership:

- Mark Meade (2009), Dept. of Biology, Jacksonville State University, Jacksonville, AL 36265, (256) 782-5638, mmeade@jsu.edu
- Section Vice-Chairs are committee members

Nominating:

- Second Vice-President: Brian Burnes, Dept. of Biology, University of West Alabama, Livingston, AL 35470, (205) 652-3442, bburnes@uwa.edu
- Section Chairs

Place and Date Meeting: (five members, staggered 5-yr terms)

- Mark Meade (Chair) (2012) Dept. of Biology, Jacksonville State, University, Jacksonville, AL 36265, (254)782-5638, mmeade@jsu.edu
- Larry Krannich (2010), Department of Chemistry, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-8017, krannich@uab.edu
- Yong Wang (2011) Center for Forestry and Ecology, Alabama A&M University, Normal, AL 35762 (256)372-8404; yong.wang@aamu.edu
- Vacant
- Vacant

Public Relations: (staggered, 4-yr terms)

- Roland Dute (2009), Dept. of Botany, Auburn University, Auburn, Alabama 36849, duterol@auburn.edu
- Ellen Buckner (2011), School of Nursing, UAB, Birmingham, Alabama 35294, (205) 934-6799, e-mail ; bucknere@uab.edu
- Larry Davenport (2012), , Dept. of Biology, Samford University, 800 Lakeshore Drive,

- Birmingham, AL 35229, (205) 726-2584, ljdavenp@samford.edu
- Ken Marion (2010), Department of Biology, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-3582, kmarion@uab.edu

Regional Science Fairs:

- Virginia Valardi (2009), Wetumpka High School, 1251 Coosa River Parkway, Wetumpka, AL 36092, (334) 799-0104 (O), (334) 514-1770 (H), virginia.vilardi@elmore.k12.al.us
- Regional coordinators

Research: (five members with staggered 5-yr terms)

- George Cline (2011) Chair Dept. of Biology, Jacksonville State University, Jacksonville, AL 36265 (256) 282-5798, gcline@jsu.edu.
- Bruce Smith (2010), Scott-Ritchey Research Center, Auburn University, Auburn, AL 36849 (334) 844-5587, smithbf@auburn.edu
- Stephen A. Watts (2013), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294 (205) 934-2045, sawatts@uab.edu
- Alan Sprague (2009) Dept. of Computer and Information Science, University of Alabama at Birmingham, Birmingham, AL 35294-1170 (205) 934-2213, sprague@cis.uab.edu
- Robert Thacker (2010) Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294 (205) 943-4006 thacker@uab.edu
- Roland Dute (2012), Department of Biology, Auburn University, Auburn, AL 36849, (334) 844-1646, duterol@auburn.edu
- Yong Wang (2011) Center for Forestry and Ecology, Alabama A&M University, Normal, AL 35762 (256)372-8404; yong.wang@aamu.edu

Resolutions:

- Mark Meade (2009), Dept. of Biology, Jacksonville State University, Jacksonville, AL 36265, (256) 782-5638, mmeade@jsu.edu

Science and Public Policy:

- Scott Brande, Chair, (2010), Dept. of Geology, University of Alabama at Birmingham, 910 15th Street South, Birmingham, AL 35291, (205) 934-8280. sbrande@uab.edu
- Steven Carey (2009), Dept. of Natural Sciences, University of Mobile, Mobile, AL 36616, (334) 442-2346
- Boakai K. Robertson (2009), Dept. of Biology, ASU, Montgomery, Alabama 36101, (334) 229-4423, brobertson@alasu.edu
- James Bradley (2009), Dept. of Biological Sciences, Auburn University, Auburn, Alabama 36849, (334) 844-9262, bradljt@auburn.edu

Science Olympiads:

- Jane D. Nall (2009), 31110 Wakefield Drive, Spanish Fort, AL 36527, (251) 621-2911, drnall@hotmail.com
- Regional Coordinators

Steering:

- President: Kenneth Roblee (2009), Dept of Mathematics , Troy University, Troy, Alabama 36081, (334) 670-3549, kroblee@troy.edu
- Immediate Past President: George Cline (2009), Dept. of Biology, Jacksonville State Univ., Jacksonville, AL 36265 (256) 282-5798, gcline@jsu.edu
- First Vice-President: Brian Thompson, (2010), Dept. of Physics and Earth Sciences, University of North Alabama, Florence, AL 35632, (256)765-4881, [,dbthompson@una.edu](mailto:dbthompson@una.edu)
- Second Vice-President: Brian Burnes, (2011), Dept. of Biology, University of West Alabama, Livingston, AL 35470, (205) 652-3442, bburnes@uwa.edu
- Treasurer: Taba Hamissou (2009), Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5040, taba@jsu.edu
- Secretary: James Rayburn (2009), Dept. of Biology, Jacksonville State University, Jacksonville, Alabama 36265, (256) 782-5803, jrayburn@jsu.edu

Wright A. Gardner Award: (four members with staggered 2-yr terms)

- Prakash Sharma, Chair, (2010), Department of Physics, Tuskegee University, Tuskegee, AL 36088, (334) 727-8998, pcsharma@tuskegee.edu
- Anne Cusic (2010), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294-1170, (205) 934-9686, acusic@uab.edu
- Barrett Bryant (2009), Dept. of Computer and Information Sciences, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-2213, Bryant@cis.uab.edu
- Gene Byrd (2009), Dept. of Physics, University of Alabama, Tuscaloosa, AL 35487-0324, (205) 348-3793, byrd@possum.astr.ua.edu

PAST PRESIDENTS

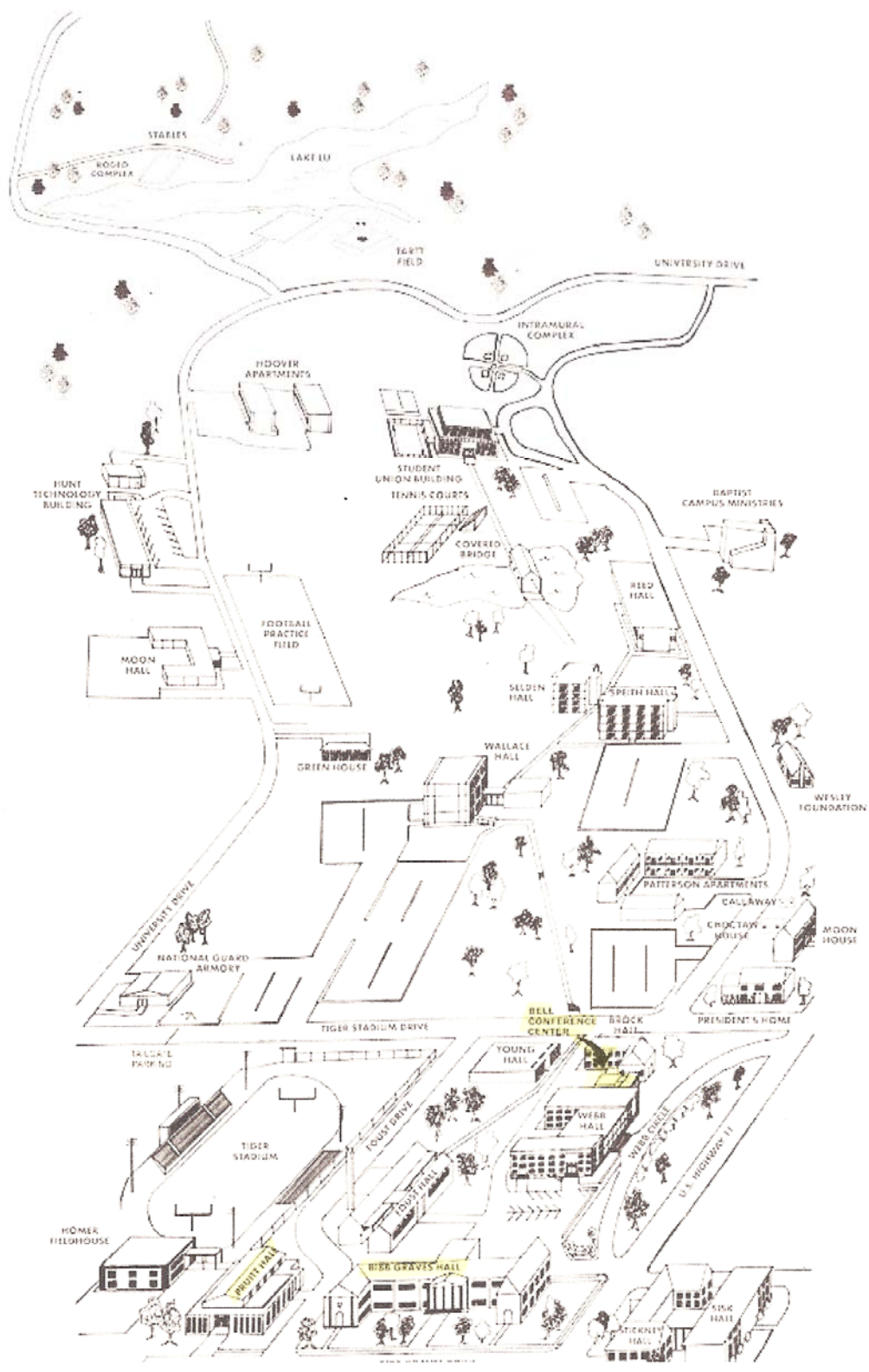
NAME	TERM
Wright A. Gardner (2 terms).....	1924-26
Stewart J. Lloyd	1926-27
John R. Sampey	1927-28
Walter C. Jones	1928-29
Fred Allison	1929-30
Emmett B. Carmichael.....	1930-31
George J. Fertig	1931-32
J.F. Duggar	1932-33
J.L. Brakefield	1933-34
Russell S. Poor	1934-35
A.G. Overton	1935-36
Walter B. Jones	1936-37
Roger W. Allen	1937-38
P.H. Yancey	1938-39
George D. Palmer	1939-40
C.M. Farmer	1940-41
Paul D. Bales	1941-42
W.M. Mobley	1942-43
E.V. Jones	1943-44
J.T. McKenzie	1944-45
J.M. Robinson	1945-46
James L. Kassner	1946-47
John Xan	1947-48
Eugene D. Emigh	1948-49
C.A. Basore	1949-50
Harold E. Wilcox	1950-51
Henry Walker	1951-52
John A. Fincher	1952-53
Joseph F. Volker	1953-54
William T. Wilks	1954-55
Ralph Chermock	1955-56
J. Allen Tower	1956-57
Howard Carr	1957-58
Herbert A. McCullough	1958-59
Samuel B. Barker	1959-60
James R. Goetz	1960-61
Paul C. Bailey	1961-62
Louis J. Eisele	1962-63
E. Carl Sensenig	1963-64
William J. Barrett	1964-65
James F. Sulzby, Jr.	1965-66
David L. DeJarnette	1966-67

H. Ellsworth Steele	1967-68
Ruric E. Wheeler	1968-69
Wilbur B. DeVall	1969-70
W.L. Furman	1970-71
G.O. Spencer	1971-72
Joseph C. Thomas	1972-73
Robert T. Gudauskas	1973-74
Reuben B. Boozer	1974-75
Thomas E. Denton	1975-76
Urban L. Diener	1976-77
James C. Wilkes	1977-78
William F. Arendale	1978-79
Jack H. Moore	1979-80
Geraldine M. Emerson	1980-81
Kenneth Ottis	1981-82
Charles M. Baugh	1982-83
Raymond E. Isbell	1983-84
John F. Pritchett	1984-85
Stanley T. Jones	1985-86
Philip G. Beasley	1986-87
H. Dean Moberly	1987-88
Richard L. Shoemaker	1988-89
Adriane G. Ludwick	1989-90
Michael E. Lisano	1990-91
Ken R. Marion	1991-92
Michael B. Moeller	1992-93
Prakash Sharma	1993-94
Eugene Omasta	1994-95
Dan C. Holliman	1995-96
Thomas S. Jandebour	1996-97
Ellen B. Buckner	1997-98
Moore Asouzu	1998-99
Larry R. Boots	1999-00
Richard Hudiburg	2000-01
Roland Dute	2001-02
Stephen A. Watts	2002-03
Anne M. Cusic	2003-04
Ronald L. Jenkins	2004-05
Larry Davenport	2005-06
David Nelson	2006-07
George Cline	2007-08

Hosts for Future Alabama Academy of Science Meetings

2010 – Alabama A&M University
2011 – Jacksonville State University

The Local Arrangements Manual for planning Academy annual meeting can be found on the Academy website: www.alabamaacademyofscience.org



EIGHTY-SEVENTH ANNUAL MEETING
of the
ALABAMA ACADEMY OF SCIENCE, INC.



JOINT MEETING
with the
ALABAMA JUNIOR ACADEMY OF SCIENCE
GORGAS COMPETITION AWARDS

March 2010

Alabama A&M University
Normal, AL