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 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 of Montevallo police number:  665-6500
  Emergencies (Police, Fire, Medical): 9-911

*Off-campus police: Montevallo Police 665-2552

*Off-campus emergencies (Police, Fire, Medical): 911
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Dear Academy Participants,

On behalf of the University of Montevallo’s faculty, staff and students, it is my pleasure to welcome you to the annual meeting of the Alabama Academy of Science, the Alabama Junior Academy of Science and the Gorgas Scholarship Program. This is Montevallo’s first time to host this prestigious event and we are honored to do so. I encourage you to attend Academy sessions, activities and presentations while enjoying the hospitality of our historic campus.

The University of Montevallo was founded in 1896 and, as Alabama’s only public liberal arts university, remains committed to the vision and high standards established by its founders. The University’s mission, codified in State law, is unique in Alabama higher education. Famous for its red brick streets and paths, the University is most proud of its excellent, nationally renowned faculty.

We are honored by your presence and wish for each of you a productive and enjoyable time while attending the Academy sessions. You are always welcome at Montevallo, so return soon and often.

Cordially yours,

[Signature]

Robert W. McChesney

Montevallo, Alabama 35115-6000  Fax: 205/665-6023  Telephone: 205/665-6001

The University of Montevallo is an affirmative action-equal opportunity institution.
Dear Academy Members,

Welcome to the 81st meeting of the Alabama Academy of Science. We are honored to have been invited by The University of Montevallo to hold our annual meeting on this beautiful campus. The Executive Committee of the Academy wishes to thank Dr. Houston Byrd and the members of the Local Arrangements committee for their hard work in planning this meeting.

The trustees, officers, and section chairs are looking forward to an outstanding meeting. Many informative papers will be presented in the various sections. For those members who have attended the meetings before, we appreciate your continued support. For those of you who are attending your first meeting, we welcome you and hope you find informative presentations and make friends with your colleagues from other institutions. For those students presenting your first paper, we share with you your excitement and wish you good luck. For those members of the Junior Academy, we hope that this meeting inspires you to continue your interest in science.

I want to personally thank the trustees, officers, committee members, and section chairs for their help in making this meeting possible. I want to also thank them for the assistance they have given me over the past year. I especially want to thank Dr. Larry Krannich, the Executive Director, for his help and hard work.

Once again, I welcome you and hope that you enjoy the meeting and that you return to your institutions and spread the word about the Alabama Academy of Science.

Anne M. Cusic, Ph.D.
President, Alabama Academy of Science

LOCAL ARRANGEMENTS COMMITTEE

The officers and members of the Academy express their appreciation to the University of Montevallo and to the Local Arrangements Committee for their efforts in planning and hosting this 80th Annual Meeting.

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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 Friday morning.

- Computers will be provided where needed for presentations. If presenters bring their own, they are responsible for their computer.

POSTERS & VENDORS

Posters are to be available for viewing on the permanent poster boards (3’ x 4”) located on the 1st floor of Harman Hall. Authors for the Health Sciences session posters should be present from 11:30 AM – 12:30 PM on Thursday for discussions with viewers. Authors for the Biological Sciences session posters should be present from 4:00 PM to 5:00 PM and all other poster sessions from 1:00 P.M. to 2:00 P.M. for discussions with viewers on Thursday and Friday. The schedule by section is as follows:

  Thursday: Biological Sciences (Section I) and Health Sciences (Section IX)

  Friday: Biological Sciences (Section I), Chemistry (Section II), and Geography, Forestry, Conservation, & Planning (Section IV)

Posters must be removed by 5:30 P.M. of the respective day.

Vendors display from 8:00 AM – 4:00 PM on the 1st floor of Harman Hall both Thursday and Friday.

PROGRAM of the
ALABAMA ACADEMY OF SCIENCE
March 17 - March 20, 2004

Wednesday

4:00 - 6:00 PM  Registration.................................................. Harman Hall Lobby

6:30 - 10:00 PM  Executive Committee Dinner and Meeting ................................................ Anna Irvin Dining Hall

Thursday Morning

7:00 - Noon  Registration.................................................. Harman Hall Lobby
Continental Breakfast.................................... Harman Hall Atrium and Room 229
Noon – 1:00 PM Lunch............................................. Anna Irvin Dining Hall
Noon – Lunch (Trustees, Elected Officers, Exec. Dir.) .... Anna Irvin Dining Hall

8AM - 4:00 PM  Vendor Exhibits.................................... Harman Hall First Floor
11:30 - 5:00 PM  Poster Viewing........................................1st Floor Harman Hall
Authors present from 11:30 – 12:00 PM to discuss Health Sciences’ posters

8:30 AM  Alabama Academy of Science Program Sessions............... Harman Hall

Program Sessions:

  8:30  Biological Sciences I (Section I)........ 103 Harman Hall

  10:00  Geography, Forestry, Conservation, & Planning I (Section IV) .......... 120 Harman Hall

  10:30  Industry and Economics I (Section VI) ........................................... 226 Harman Hall

  8:30  Behavioral and Social Sciences (Section VIII)..................... 220 Harman Hall

  8:30  Health Sciences I (Section IX)......... 201 Harman Hall
9:15 Engineering and Computer Sciences I  
(Section X) .......................................... 225 Harman Hall

Slide Preview Room.......................................................... 221 Harman Hall

Thursday Afternoon

12:00 - 4:00 PM Vendor exhibits............................... Harman Hall First Floor

1:00 - 4:00 PM Registration.............................................. Harman Hall Lobby
Snacks........................................................................... Harman Hall Atrium and 229 Harman Hall

1:00 - 5:00 PM Poster Viewing.................................. 1st Floor Harman Hall
Authors present from 4:00 – 5:00 PM to discuss Biological Sciences’ posters

1:00 PM Alabama Academy of Science Section Program Sessions .............. Harman Hall

Program Sessions:
1:00 Biological Sciences II (Section I) ....... 103 Harman Hall
1:00 Geography, Forestry, Conservation, & Planning II (Section IV) .......... 120 Harman Hall
1:00 Physics and Mathematics (Section V) ......... 232 Harman Hall
1:20 Industry and Economics II (Section VI) 226 Harman Hall
1:00 Behavioral and Social Sciences I (Section VIII) 220 Harman Hall
1:15 Health Sciences II (Section IX) 201 Harman Hall
1:00 Engineering and Computer Sciences II (Section X) ......... 225 Harman Hall

Thursday Evening

5:00 PM Section Officer's Meeting................................. 103 Harman Hall

6:00 PM Social for All Registrants.............................. The American Village
Single day registrants can purchase a ticket for $5 at registration

Friday Morning

7:00 AM Dutch Breakfast (Past and present officers, Gardner Awardees, and Gorgas participants) ....... TBA

7:00 – Noon Registration.................................................. Harman Hall Lobby
Continental Breakfast........................................ Harman Hall Atrium and Room 229l
Noon – 1:00 PM Lunch ................................................ Anna Irvin Dining Hall

8 AM - 4:00 PM Vendor exhibits............................... Harman Hall Lobby

8:30 – Noon SYMPOSIUM ............................................. Comer Auditorium

Symposium Sponsored by Science Education (Section VII)

“Honors Education in Alabama -- The Why’s, the Where-fore’s and the How’s” ................. Comer Auditorium

12:00 Noon Group Picture ............................................. Harman Hall Entrance
Noon – 1:00 PM Lunch ................................................. Anna Irvin Dining Hall

Friday Afternoon

12:00 - 4:00 PM Vendor exhibition area................. Harman Hall First Floor

1:00 - 2:00 PM Registration............................................ Harman Hall Lobby

1:00 - 4:00 PM Poster Viewing................................. 1st floor Harman Hall
Authors present 1:00 - 2:00 PM to discuss Chemistry, and Geography, Forestry, Conservation and Planning posters and from 4:00 – 5:00 PM to discuss Biological Sciences’ posters.

12:30 PM Alabama Academy of Science Section Program
Sessions ................................................................. Harman Hall

Program Sessions:

1:00 Biological Sciences III (Section I) ....... 119 Harman Hall
1:00 Biological Sciences IV (Section I) ....... 120 Harman Hall
1:00 Chemistry (Section II) ....................... 218 Harman Hall
1:00 Geography, Forestry, Conservation, and Planning III (Section IV) ................. 201 Harman Hall
1:00 Science Education (Section VII) ............ 226 Harman Hall
12:30 Anthropology (Section XI) .................. 103 Harman Hall
1:00 Bioethics and History & Philosophy of Science (Section XII) .................. 225 Harman Hall

Slide Preview Room ................................................. 221 Harman Hall

Friday Evening

6:00 AJAS/AAS Annual Business Meeting ....................... 103 Harman Hall
7:00 Joint AJAS/AAS Banquet .................................. Anna Irvin Dining Hall

Anne Cusic, Presiding
Dr. Michael Hardig, Assistant Professor of Biology
The University of Montevallo

Presentation of the AJAS and Gorgas Awards
Ellen Buckner

PROGRAM of the ALABAMA JUNIOR ACADEMY OF SCIENCE
B.J. Bateman, State Counselor
March 18 - March 20, 2004

Thursday

3:00 - 6:00 PM Early Arrival Registration ............ Best Western, Calera
Phone 205-668-0222

6:00 PM Social for all Registrants ................ American Village

Friday

7:00 AM Continental Breakfast .................. Best Western, Calera

7:45 AM Registration ............................................. 201 Harman Hall

7:45 AM Paper Reading Orientation .................. 201 Harman Hall

8:15 AM Paper Competition ........................... Harman Hall

11:45 AM Caucus .............................................. 201 Harman Hall

12:00 Noon Lunch ........................................... Anna Irvin Dining Hall

1:30 PM JSU Science Activity:

5:00 PM Meeting with officers and candidates for office to explain responsibilities .................. 201 Harman Hall

6:00 PM Joint AJAS/AAS Business Meeting ........... 103 Harman Hall

7:00 PM Joint AJAS/AAS Banquet and Presentation of Awards ................ Anna Irvin Dining Hall
9:30 PM  AJAS Social ......................................... Anna Irvin Dining Hall

Saturday

7:00 AM  Continental Breakfast ......................... Best Western, Calera
8:00 AM  Paper Competition Finals .......................... 201 Harman Hall
10:30 AM  Elections, Awards, Group Photograph and Business Meeting ................................. 201 Harman Hall

GORGAS SCHOLARSHIP PROGRAM
Friday, March 19, 2004
211 Harman Hall

Ellen Buckner, Chair, Judges

1:00  Set Up Science Exhibits ......................... 211/204 Harman Hall
1:45  Demonstrations for Judges .......................... 211/204 Harman Hall
3:00  Individual and Private Judging ..................... TBA (offices)
5:00  Public Showing of Exhibits ......................... 211/204 Harman Hall
7:00  Joint AJAS/AAS Banquet ......................... Anna Irvin Dining Hall
      Announcement of Winners
      Ellen Buckner

The Gorgas Scholarship Program is supported by the Alabama Power Foundation, Incorporated, and administered by the Alabama Academy of Science, Inc.
SECTION I -- BIOLOGICAL SCIENCES
Session I
Thursday Morning
103 Harman Hall
Mark E. Meade, Presiding

1. 8:30 Florida manatee finger bones under the fingernails. Gerald T. Regan, Marterra Foundation Inc.

2. 8:45 Cannabinoid variations during the growing season of a turkish variant of Cannabis sativa, L. Norman J. Doorenbos, Oswaldo Guerrero, and Maynard W. Quimby, Auburn University.

3. 9:00 Fungal metabolism studies of dehydroabietic acid. Norman J. Doorenbos, James Flor, and Larry Robertson, Auburn University.


4:15 INTERMISSION


8. 10:45 The status of the populations of the flattened musk turtle (Sternotherus depressus) in Bankhead National Forest and Smith Lake, Alabama, with emphasis on sex ratios and the distribution of size classes within populations. Sherry Holmes and Ken Marion, University of Alabama at Birmingham.

9. 11:00 Growth of a vacuoleless mutant of Tetrahymena thermophila in phytate. Samantha Webb and Harriet-Smith Summerville, Stillman College.

10. 11:15 Postfeeding increase in intestinal performance, a function of microvilli elongation. Catameron Bobino and Stephen Secor, Stillman College.

11:30 LUNCH BREAK

SECTION I: BIOLOGICAL SCIENCES
Session II
Thursday Afternoon
103 Harman Hall
Mark E. Meade, Presiding

11. 1:00 The effect of invasive plant species on the ecosystem of Shades Creek. Jeremy H. White, Reed B. Hogan III, and L.J. Davenport, Samford University.

12. 1:15 A proposed index of biological integrity for aquatic macroinvertebrates. L.J. Davenport and W. Mike Howell, Samford University.

13. 1:30 An examination of morphological and biological traits of dominant macroalgal species that regulate patterns of distribution and abundance of amphipods in Antarctica. Yusheng Huang, Margaret O. Amスキル, James B. McClintock, Charles D. Amスキル, and Bill J. Baker, University of Alabama at Birmingham.

14. 1:45 Use of anaerobic bacteria as probiotics in aquaculture. Mark E. Meade and Benjie G. Blair, Jacksonville State University.

15. 2:00 Notes on the biology of the freshwater jellyfish (Craspedacusta sowerbii) in Northeastern Alabama. George R. Cline, James R. Rayburn, Mijataba Hamissou, and Frank Romano, Jacksonville State University.

2:15 INTERMISSION

17. 3:00 Acoustic cavititation and advanced chemical oxidants as mechanisms to eradicate marine bacteria and macroinvertebrates from ballast water. Meghana Gavand, Ananthakrishnan Ananthanarayanan, James McClintock, Charles Amsler, Robert Peters, and Shirley Clark, University of Alabama at Birmingham.


19. 3:30 Preliminary herpetological inventory of the upper Mobile delta. Joel A. Borden, David H. Nelson, and Gabriel J. Langford, University of South Alabama.

20. 3:45 Nesting activity of the Alabama red-bellied turtle (Pseudemys alabamensis) at Meaher State Park. Gabriel J. Langford, David H. Nelson, and Joel A. Borden, University of South Alabama.


23. Telomerase inhibition in estrogen receptor negative breast cancer cells by epigallocatechin-3-gallate. Joel B. Berletch, University of Alabama at Birmingham.

24. The effects of Ficus carica extracts upon the growth of epidermoid cancer cells in culture. Celeste Sharplin and Betsy Dobbins, Samford University.

25. Sedimentation in Ross Creek as a result of construction. Andrew Householder, Samford University.


27. Evaluation of developmental toxicity of interaction between caffeine and pseudoephedrine using from embryo teratogenesis assay-Xenopus (FETAX). Bernice Moser, James Rayburn, and Angelette Daigle, Jacksonville State University.

SECTION I – BIOLOGICAL SCIENCES

Session III
Friday Afternoon
119 Harman Hall
Mark Meade, Presiding

28. 1:00 The pathogenesis of SARS coronavirus infection in cell culture and animal based models of infection. Thomas G. Voss, J. Hogan, T. Rowe, B. Taggart, G. Triggs, A. King, L. Frye, and C. Gagliano, Southern Research Institute.


30. 1:30 Distribution and establishment of the Formosan subterranean termite (Isoptera: Rhinotermitidae) in Alabama. Xing Ping Hu, Faith Oi, and Fang Zhu, Auburn University.

31. 1:45 Detection of Vibrio parahaemolyticus O3:K6 using real time PCR with Taqman fluorescent probes in Gulf of Mexico water and shellfish. Amy Rizvi and Asim K. Bej, University of Alabama at Birmingham.

32. 2:00 Detection of total and pathogenic Vibrio spp. using multiplex PCR and DNA microarrays. Gitika Panicker and Asim K. Bej, University of Alabama at Birmingham.

2:15 INTERMISSION

34. 3:00  Effect of cyclic AMP on protein metabolism in crustacean (Callinectes sapidus) Y organs. Deug Woo Han and Douglas Watson, University of Alabama at Birmingham.

35. 3:15  Fishing for mercury at the local grocery. Dustin W. Morin, Karla E. Hinds, and Alfred C. Nichols, Jacksonville State University.

36. 3:30  Isozyme variation among Gulf of Mexico goatfish. Chenein N. Segalas and Mark Meade, Jacksonville State University.

37. 3:45  Phloxine b is a potential prophylactic treatment against channel catfish pre-infected with Ichthyophthirius multifiliis. Mark Haygood, Benjie Blair, Mark Meade, Charles Olander, and Ashley Ward, Jacksonville State University.

38. 4:00  A study of salt stress response of three taxonomically different plant species. Mijitaba Hamissou and Amora W. Hicks, Jacksonville State University.

SECTION I – BIOLOGICAL SCIENCES
Session IV
Friday Afternoon
120 Harman Hall
Brian Burnes, Presiding

39. 1:00  Stability of antibiotic resistance profiles of fecal coliforms. Rebecca Givens and Brian S. Burnes, Judson College.


43. 2:00  Evaluation of aromatase mRNA levels in brain tissue during temperature-dependent sex determination in the red-eared slider turtle. Keela Dodd, Chris Murdock, and Thane Wibbels, University of Alabama at Birmingham.

44.* 2:15  INTERMISSION

44.* 2:45  Using macroinvertebrate assemblages to evaluate the ecological health of urban impacted streams in the Southeastern Plains ecoregion, Alabama. Christa Collins, Michael W. Mullen, and Paul M. Stewart, Troy State University.

45.* 3:00  The affect of urbanization on the diversity of fish assemblages and the biological integrity of impacted streams in the Southeastern Plains ecoregion, Alabama. Bonnie Hamiter, Christa Collins, Kristy Pisani, Megan Pilarczyk, and Jonathan Miller, Troy State University.


47. 3:30  Enzyme histochemistry of the fish gill. Glenn M. Cohen and Chen Jiang, Troy State University.


49. 4:00  Does environmental stress increase fluctuating asymmetry in the eastern mosquitofish? Eleanor J. Estes, University of Alabama at Birmingham.
SECTION I – BIOLOGICAL SCIENCES
Poster Session II
Friday Afternoon
Authors present from 4:00 to 5:00 PM
1st Floor Harman Hall

50.* Urbanization factors that affect aquatic biological communities. Janna Owens, Robert Angus, Melinda Lalor, Jaideep Honovar, Steve McKinney, and Ken Marion, University of Alabama at Birmingham.


52. Preliminary study of the bioaccumulation of polychlorinated biphenyls in Logan Martin Lake. Shawn Bailey and James Rayburn, Jacksonville State University.

*Denotes presentation is entered in competition

SECTION II -- CHEMISTRY
Friday Afternoon
218 Harman Hall
Jan Gryko, Presiding

1:00 POSTER SESSION

1. 2:00 Synthesis and evaluation of some 4 aza-20alpha-aminopregnanes as antimicrobial agents. N. Doorenbos and F. Jawad, Auburn University School of Pharmacy.

2. 2:20 Chemical analysis of pigments of Native American ceramics. P. Ward, Jacksonville State University.

3. 2:40 Building a low cost differential scanning calorimeter for the undergraduate laboratory. J. Lang, Jacksonville State University.

4. 3:00 Quantitative analysis of oil absorption by grafted bagasse in simulated ocean environment. M. Brown, V. Blackman, and A. Ludwick, Tuskegee University.


6. 3:40 Raman spectroscopy studies of amorphous silicon and germanium. J. Pritchett, Jacksonville State University.

7. 4:00 Reactions of zintl phases with ammonia and amines. M. Millwood, Jacksonville State University.

4:20 BUSINESS MEETING
SECTION II -- CHEMISTRY
Poster Session
Friday Afternoon
1st Floor Harman Hall

8. Synthesis and characterization of 5, 10, 15, 20-tetra[3-(3-trifluoromethyl)-phenoxy] porphyrin and the zinc, copper, cobalt, and manganese complexes. F. Rudeseal, Jr,a C. Simmer,a L. Fondren,a,b L. Folmar,a C. Tidwell,a K. Belmore,b and P. Bharara,a University of Montevalloa and The University of Alabama.b

9. Laser flash photolysis studies of zinc 5, 10, 15, 20 tetra(9-ethyl-e-carbazoyl) porphyrin. L. Fondren,a,b M. Bakker.b and C. Tidwell.a University of Montevalloa and The University of Alabama.b


12. The effects of salts on the thermodynamics of RNase A/2’CMP binding. L. Rupert and C. Jones, University of South Alabama.

SECTION IV – GEOGRAPHY, FORESTRY, CONSERVATION, AND PLANNING
Session I
Thursday Morning
120 Harman Hall
William K. McAllister, Presiding

1. 10:00 Longitudinal survey of antibiotic resistance of microorganisms of the Cahaba River watershed. Carrie Helton, Judson College.


4. 11:00 Redistricting in the blackbelt counties of Alabama. Elton J. Thomas, Alabama A & M University.


12:00 LUNCH

SECTION IV – GEOGRAPHY, FORESTRY, CONSERVATION, AND PLANNING
Session II
Thursday Afternoon
120 Harman Hall
William K. McAllister, Presiding

1:00 BUSINESS MEETING


8.*  2:00  Creating viable plans for property development: Development schemes for the Burton property, Patrice S. Ruffin, Alabama A & M University.

9.  2:20  A case study in the use of eminent domain powers by the city of Alabaster, Alabama. Nicholas Nene, Alabama A & M University


SECTION IV – GEOGRAPHY, FORESTRY, CONSERVATION, AND PLANNING

Session III
Friday Afternoon
120 Harman Hall
William K. McAllister, Presiding

11.  1:20  Landscape scale forest classification in the Pine Mountain Range, Georgia. Robert Carter and Andy Londo, Jacksonville State University.

12.  1:40  Analysis of forested land areas: The case of Mississippi. Edmund C. Merem and Yaw A. Twumasi, Jackson State University and Alabama A & M University.

SECTION IV – GEOGRAPHY, FORESTRY, CONSERVATION, AND PLANNING

Poster Session
Friday Afternoon
1st Floor Harman Hall


*Denotes presentation is entered in competition
SECTION V – PHYSICS AND MATHEMATICS
Thursday Afternoon
232 Harman Hall
John T. Tarvin, Presiding

1. 1:00 Some extremal families of edge-regular graphs. Kenneth Roblee and Tom Smotzer, Troy State University.


3. 1:45 The solar observation program at Samford University. Henry W. Glotfelty, Samford University.

4. 2:00 The Samford Electron Accelerator Light Source, SEALS. Perry A. Tompkins, Samford University.

5. 2:25 Estimating the eccentricity of the earth's orbit from the dates of the equinoxes, solstices and apsides. A. Tan, Alabama A & M University.

2:45 BUSINESS MEETING

SECTION VI – INDUSTRY AND ECONOMICS
Session I
Thursday Morning
226 Harman Hall
Marsha D. Griffin, Presiding

1. 10:30 The AGSC program: Who’s doing what to whom. Dana Harris and Marsha D. Griffin, Alabama A&M University

2. 10:50 Enrollment determinants. Marsha D. Griffin and James G. Alexander, Alabama A&M University

3. 11:10 Effects of offshore outsourcing of IT jobs. Andy Hailey, University of North Alabama

4. 11:30 The current status of wireless regulation. Paulette S. Alexander, University of North Alabama

11:50 LUNCH

SECTION VI – INDUSTRY AND ECONOMICS
Session II
Thursday Afternoon
226 Harman Hall
James G. Alexander, Presiding

5. 1:20 Human development – past, present, and future in Sub-Saharan Africa: A case study for selected countries. Fesseha Gabremikael, Alabama A&M University

6. 1:40 Determinants of dividend payout policy in India. Jayesh Kumar, Indira Gandhi Institute of Development Research
SECTION VII – SCIENCE EDUCATION
Session I, Symposium
Friday Morning
Comer Auditorium
Ellen B. Buckner, Presiding

“Honors Education in Alabama--The Why’s, the Where-fore’s and the How’s”

8:30 Registration in Harman Hall & coffee, juice and cinnamon rolls

9:00 University Honors Programs in Alabama-A Wide Diversity
Individual presentations followed by a Panel Question and Answer Session

Dr. Robert W. Halli, Dean of the Honors College and Director of the University Honors Program, The University of Alabama
Dr. Ada Long and Dr. Dail Mullins, Directors, UAB Honors Program
Dr. Jack Rogers, Director, Honors College, Auburn University
Dr. John Mebane, Director, Honors Program at UAH
Dr. Judy Stout, Director, Honors Program, University of South Alabama.

10:15 BREAK

10:30 Special Topics in Honors: Honors Curricula, Honors Activities; Departmental Honors, Honors Thesis or Project, Presentations and Publications
Individual presentations followed by a Panel Question and Answer Session

Dr. Chinita Heard, Director, Harte Honors College, Stillman College
Dr. Cynthia Smith, Alabama A&M University
Dr. Doug Rigney, Engineering, UAB
Dr. William Collins, Political Science, Samford University
Dr. Ellen Buckner, Nursing, UAB
SECTION VII - SCIENCE EDUCATION

Friday Afternoon
226 Harman Hall

Perry A. Tompkins, Presiding

1. 1:00 A pilot project in social and behavioral science honors education at the University of Alabama at Birmingham. Chris Kyle and Loretta Cormier, University of Alabama at Birmingham.

2. 1:20 New approaches to nutritional supplement therapies. Norman J. Doorenbos, Auburn University.

3. 1:40 Recruit with robotics: Using a high school robotics program to recruit science/engineering students at your institution. Mary Lou Howard and George Blanks, Auburn University.

4. 2:10 A UAB anthropology enrichment program at Arrington Middle School, Rosie O’Bierne and Lori Cormier, University of Alabama at Birmingham.

5. 2:30 Strengthening the minority pipeline in the biomedical sciences. Velma B. Richardson and Helen H. Benford, Tuskegee University.

6. 2:50 Future faculty experiencing the realities of teaching in general chemistry. Joe L. March and Larry K. Krannich, University of Alabama at Birmingham.

7. 3:10 Using a virtual lab to model probability distributions. Jan Case, Jacksonville State University.

8. 3:30 Engaging the science community in K-12 science reform, Lee Meadows and Joe Burns, University of Alabama at Birmingham.

9. 3:50 Whatchamacallits, gizmos, and thingamabobs: figuring out physics for elementary education, Marcie D. Fairchild and Perry A. Tompkins, Samford University.

10. 4:10 Science education outreach in Birmingham metropolitan area impacted by the NSF GK-12 program, Larry K. Krannich and David Radford, University of Alabama at Birmingham.

11. 4:30 Dynamic partnership of West Alabama for middle school mathematics, science and technology reform, Ruth A. Washington, Barbara Rountree, Martha Hocutt, Estelle Calevilli, Marylin Staffo, and Lee Aggison, Stillman College.

4:50 BUSINESS MEETING
SECTION VIII -- BEHAVIORAL & SOCIAL SCIENCES
Session I
Thursday Morning
220 Harman Hall
Betsy A. Witt, Presiding
1. 8:30 Road rage behind the wheel: a correlative study of personality and driving characteristics. Emily C. Burnett and Krystal T. Eiland, Irene Staik, Kristen Gilbert, University of Montevallo.
2. 8:50 Assessing the need for a campus conflict resolution or mediation service: an analysis of survey results from Auburn University. Cheryl Bullard and Gloria McPherson, Auburn University-Montgomery.
5. 10:00 INTERMISSION
7. 10:50 Evaluating interactive physical engagement groups (ipags) for older adults with dementia. Diane Carol Holliman, Valdosta State University.
11:35 BUSINESS MEETING
9. 11:50 LUNCH

SECTION VIII – BEHAVIORAL AND SOCIAL SCIENCES
Poster Session
Thursday Morning
220 Harman Hall

SECTION VIII – BEHAVIORAL AND SOCIAL SCIENCES
Session II
Thursday Afternoon
220 Harman Hall
Florence Wakoko, presiding
11.* 1:30 A comparison of the academic performance of traditional university students and students with children. Leslie Bice and Patricia Rodriguez, Jacksonville State University.
13.* 2:10 The relationship between poverty and achievement in Alabama public school students. Donna Hendrix, Jacksonville State University.
14. 2:30 The purpose of prisons: how victimization rates impact public opinion. Dawn Gonzalez, Columbus State University.
15. 2:50 The use of collegiality in performance reviews and tenure considerations. Terry Norris, Columbus State University.
17. 3:30 Applying private sector customer service concepts to a public sector agency. Jerry Fisher, Georgia College and State University.
Are race and gender irrelevant factors in court processing of child abusers? Betsy Witt, Columbus State University.

*Denotes presentation is entered in competition

SECTION IX -- HEALTH SCIENCES
Session I
Thursday Morning
201 Harman Hall
M. Peggy Hays and R. E. Pieroni, Presiding

1. 8:30 The effect of acculturation on the knowledge of and adherence to breast self-examination (BSE) technique in Hispanic women. Andrea Lucas, Susan M. Carroll and Ellen Buckner, University of Alabama at Birmingham.

2.* 8:45 Mothers’ descriptions of experiences about touching their preterm babies in the neonatal intensive care unit. Stephanie Rose Austell and Marion Broome, University of Alabama at Birmingham.

3.* 9:00 Assessing social support and the risk for postpartum depression. Rebecca L. Adams and Ellen Buckner, University of Alabama at Birmingham.


6. 9:45 Chemotaxonomic studies of papaver bracteatum lindley. Norman J. Doorenbos and Evamaria Elsa Neumaier, Auburn University.

10:00 INTERMISSION


9.* 10:45 Components and costs of a multidisciplinary cardiopulmonary rehabilitation clinic: effects of nursing leadership. Mary Maloney and Ellen Buckner, University of Alabama at Birmingham.

10. 11:00 The results of a fourteen-year scoliosis screening project in Alabama. Tom Denton, Auburn University at Montgomery.

11. 11:15 Diabetes or not? Melinda Lawson, University of Alabama in Huntsville.

11:30 Poster Session

12:15 LUNCH

SECTION IX – HEALTH SCIENCES
Session II
Thursday Afternoon
201 Harman Hall
R. Washington, Presiding

12. 1:15 Success or failure—where student choices lead. Ina Warboys, University of Alabama in Huntsville.

13. 1:30 Getting off to a good start: an asthma education intervention for school age children. Stephanie Brooke Rhodes, University of Alabama at Birmingham.


15. 2:00 Evaluation of bias and precision in a PT method. Li Qian, Virginia Hughes, Erin Caldwell, Adam Grooms, Latoya Jackson, Lisa Lucas, Erin Sanders, Crystal Webb and Jennifer Butrica, Auburn University at Montgomery.


2:30 BUSINESS MEETING and INTERMISSION

17. 3:00 Characterization of the cardiovascular pericytes. Eric James and Ruth A. Washington, Stillman College.

18. 3:15 “Ouch! Can you hear me?” Nurses experience with postoperative neonatal pain. Jennifer Hill, University of Alabama at Birmingham.


20. 3:45 Pharmacodynamic and phytochemical investigations of polypodium polypodioides. Norman J. Doorenbos and Raghunandan Kumar Sharma, Auburn University.

21. 4:00 Writing to learn: in search of self. M. Peggy Hays, University of Alabama in Huntsville.

22.* 4:15 Application of the correlation coefficient in a method comparison study research. Brent B. Barnes, Auburn University.

23. 4:30 Community preparedness model for bioterrorism. James A. Johnson and Jerry Ledlow, Selma, AL.

SECTION IX – HEALTH SCIENCES
Poster Session
Thursday Afternoon
1st Floor Harman Hall


27. Asthma resolution after discontinuing hormone replacement therapy. Robert E. Pieroni and Dorothy Pieroni, University of Alabama.


*Denotes presentation is entered in competition

SECTION X -- ENGINEERING AND COMPUTER SCIENCE
Session I
Thursday Morning
225 Harman Hall
Robert Pitt, Presiding


2. 9:30 Adaptive web based resource broker for the grid. Enis Afgan, University of Alabama at Birmingham.

3. 9:45 MATBAC- Matrix Based Clustering Algorithm. Yonghui Chen and Alan Sprague, University of Alabama at Birmingham.

4.* 10:00 A multi-dimension multi-process dynamic sequence alignment algorithm. Garret Cox, University of Alabama at Birmingham.


10:30 INTERMISSION


7.* 11:00 GenParse: an evolutionary approach to context-free grammar induction. Faizan Javed, University of Alabama at Birmingham.

8. 11:15 Validating distributed real-time and embedded systems in UniFrame. Shih-Hsi Liu, University of Alabama at Birmingham.

9. 11:30 Applying genetic programming techniques to context-free grammar inference. Jun Shi, University of Alabama at Birmingham.

10. 11:45 Surface reconstruction using gamma shapes. Ying Sun,
11.* 1:00 Overlapping of computation, communication, and I/O for high performance parallel computing.  *Vijay Velusamy*, University of Alabama at Birmingham.

12.* 1:15 QoS prediction in component-based distributed systems.  *Changlin Sun*, University of Alabama at Birmingham.

13.* 1:30 Scalable linear algebra library and benchmark.  *Yin Liu*, University of Alabama at Birmingham.

14. 1:45 Disintegrating clusters.  *Ying Liu* and Alan P. Sprague, University of Alabama at Birmingham.

15.* 2:00 Fuzzy optimization and normal simulation for solving fuzzy web queuing system problems.  *Xidong Zheng*, Kevin Reilly, and James J. Buckley, University of Alabama at Birmingham.

16. 2:15 Source verification of inappropriate discharges to storm drainage systems.  *Soumya Chaturvedula* and *Yukio Nara*, The University of Alabama.


18. 3:00 The nature of imperviousness in urban watersheds.  *Celina Micu*, The University of Alabama.

19. 3:15 Tracking stormwater heavy metal speciation changes from source areas to receiving waters.  *Renee E. Morquecho*, The University of Alabama.

20. 3:30 Stormwater treatment at critical source areas using upflow filters.  *Uday Khambhammettu*, The University of Alabama.


22. 4:00 Sediment transport in grass swales.  *Yukio Nara*, The University of Alabama.

4:15 BUSINESS MEETING

*Denotes presentation is entered in competition*
1. 12:30 Twenty-five years of archaeological investigations at the Davis farm archaeological complex, Calhoun County, Alabama. *Harry Holstein* and Daniel Brooks, Jacksonville State University.

2. 12:50 Kelly Springs (1Ta654), an Ellis Phase (850-1100AD) Site, Talladega County, Alabama. *Amy Eberhart* and Hunter *Johnson*, Jacksonville State University.


4. 1:30 Alexander cultural ceramics of the Cahaba and Coosa River drainages in Alabama. *Steven Meredith*, University of Alabama, Tuscaloosa.


7. 2:30 INTERMISSION


10. 3:50 The directional significance of culturally utilized natural shelters in Alabama. *Kevin Harrelson* and Jeannine Windham, Jacksonville State University.

11. 4:10 Late prehistoric politics in Northwestern Georgia. *Ramie A. Gougeon*, Panamerican Consultants, Inc.

12. 4:30 A comparative chemical analysis of paint pigments on American Indian ceramics from Kasita (9Cel) and Pride Place (1Tu1). *Priscilla B. Ward* and Hunter Johnson, Jacksonville State University.

4:50 BUSINESS MEETING
SECTION XII -- BIOETHICS AND HISTORY & PHILOSOPHY OF SCIENCE
Friday Afternoon
225 Harman Hall
James Bradley, Presiding

1. 1:00 Section XII Inaugural Address: On the ethics of ethically restraining science. Peter Harzem, Auburn University.

2. 1:40 Euthanasia jurisprudence and physician-assisted suicide: what have we learned? Stephen W. White, Auburn University.

3. 2:00 Dude, only grown-ups die: communicating the health care system to college students. Kenneth E. Nusbaum, Auburn University.

4. 2:15 English studies and biotechnology: applications of language theory to genetic research. Michelle Sidler, Elizabeth Cater Childs, and Jessica Lueders, Auburn University.

5. 2:45 Identifying with nuclear power: examining the success of the anti-nuclear movement, Keith Gibson, Auburn University.


8. 3:45 Human nature and value creation. Leonard W. Ortmann, National Center for Bioethics in Research and Health, Tuskegee University.

9. 4:05 Consent: bioethical and legal considerations that shape the exercise of self-determination. Jill A. Ross, University of Alabama at Birmingham.


4:45 BUSINESS MEETING

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.
2004 REGIONAL SCIENCE FAIRS

North Alabama  March 8-11  Calhoun Community College, George Williams 256.306.2838, Sue Mitchell 256.306.2655

West Alabama  March 12-13  University of West Alabama, Richard D. Holland, 205.652.3414

South  March 26-27  University of South Alabama, Satya Mishra, PH: 251.460.1642, Fax: 251.460.7969, e-mail: mishra@jaguar1.usouthal.edu

Central  March 26-27  University of Alabama at Birmingham, James C. Martin, Physics, 205.934.8090

Northeast  Feb. 26-27  Talladega College, Mrs. Gladys Mayers Swain 256.761.6308 x6308 FAX: (256) 362-1090 E-MAIL: gswain@talladega.edu

East Alabama  March 4-5  Chattahoochee Valley Community College, Phoenix City, Susan Marie McCollum, 334.291.4953, Fax: 334.291.4980, Mobile: 706.332.3109, Home: 334.749.8101, e-mail: susan.mccollum@cvcc.cc.al.us

State Fair  April 2-3  University of Alabama at Huntsville, Jim Miller, 256.824.2846

THE ALABAMA STATE SCIENCE AND ENGINEERING FAIR will be held April 2-3 at The University of Alabama in Huntsville, Coordinator, Jim Miller, Physics, 256.824.2846 and Graeme Duthie, 256.824.6605.


ALABAMA SCIENCE OLYMPIAD 2003-2004

Elementary Science Olympiad Tournaments

Geneva High School, November 8. Mr. Robert Chambless, lchambless@alaweb.com

University of West Alabama, Saturday, February 21. Dr. Donald Salter, Department of Biology, dsalter@uwa.edu, Livingston, AL. Saturday, February ESO@UWA.edu

Jacksonville High School, May 8 or 15, David Peters, 1000 George Douthit Drive SW, Jacksonville, AL 36265 (256) 435-4177, ESOatJHS@hotmail.com

Auburn University, May 1. Greg Harris, Department of Mathematics, 218 Parker Hall, Auburn, AL 36830 harriga@mail.auburn.edu

Secondary Regional Science Olympiad Tournament

University of Alabama, February 14. Dr. Joe Benson, College of Arts & Sciences. dbenson@as.ua.edu, College of Arts & Sciences, Box 870268,Tuscaloosa, AL 35486 (205) 348-7007.

Auburn University, February 28, Dr. Steve Stuckwisch, Department of Geology, 108 Tichenor Hall, Auburn University, AL 36830. (251) 844-6575 ssstuckwisch@charter.net

University of Alabama at Huntsville, February 21, Mrs. Vanessa Colebaugh, 1315 Pratt Ave., Huntsville, AL 35801 (256) 922-5747 nessacita@comcast.net

University of South Alabama, March 6, Dr. Steve Itaya, Dept. of Biomed Science, UCOM 6000, Univ. of South Alabama, Mobile, AL 36608 (251) 380-2710 sitaya@jaguar1.usouthal.edu

Jacksonville State University, February 28, Dr. David Steffy, Dept. of Physical/Earth Sciences, Jacksonville State University, 700 N Pelham Rd, Jacksonville, AL 36265 (256) 782-5966 dsteffy@jsuce.jsu.edu
Secondary State Science Olympiad Tournaments

**Huntingdon College**, March 13, Dr. Sidney Stubbs, 1500 E Fairview Ave, Montgomery, AL 36106 (334) 833-4430
sstubbs@huntingdon.edu

**Samford University**, April 10, Dr. Perry Tompkins, 800 Lakeshore Drive, Birmingham, AL 35229-2245, (205) 726-2329, patompki@samford.edu


**State Director**: Jane Nall, 31110 Wakefield Drive, Spanish Fort, AL 36527 (251) 621-2911, Fax (251) 625-7032, email drnall@hotmail.com
Alabama Science Olympiad web page: www.aso.jsu.edu

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. Betsy Dobbins, Biology Department, Samford University, Birmingham, AL 35229, Treasurer, AAS. Gifts are tax deductible.
Dr. Michael B. Moeller is 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:

- **1990 - 1991** Mrs. Amy Livengood Sumner, UAB
- **1991 - 1992** Mrs. Leella Holt, UNA.
- **1993 - 1994** Jeffrey Baumbach, Auburn University.
- **1994 - 1995** Not Awarded.
- **1995 - 1996** Laura West Cochran, University of Montevallo.
- **1996 - 1997** Tina Anne Beams, UAT.
- **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

WRIGHT A. GARDNER AWARD RECIPIENTS FOR 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 at Huntsville
- **1987** Herbert H. Winkler, Microbiology, University of South Alabama
- **1988** Richard W. Comps, 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
**ALABAMA ACADEMY OF SCIENCE SECTION OFFICERS**

<table>
<thead>
<tr>
<th>Section Officers:</th>
<th>Chairs</th>
<th>Vice Chairs</th>
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<td>2003 - 2004</td>
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<td>Sciences Univ.</td>
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<td>II. Chemistry</td>
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<td>IV. Geography</td>
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ALABAMA ACADEMY OF SCIENCE

ELECTED OFFICERS

2003–2004

President: Anne M. Cusic (2004) Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, (205) 934–9686, FAX (205) 975–6097, e-mail: acusic@uab.edu

President-Elect: Ron Jenkins (2004), Dept. of Biology, Samford University, 800 Lakeshore Drive, Birmingham, AL 35229, (205) 726–2947, FAX (205) 726–2479, e-mail: rljenkin@samford.edu

Second Vice-President: Larry Davenport (2004), Dept. of Biology, Samford University, 800 Lakeshore Drive, Birmingham, AL, 35229, (205) 726-2584, FAX (205) 726-2479, e-mail: ljdavenp@samford.edu

Secretary: Dail Mullins (2004), Dept. of Education, University of Alabama at Birmingham, Birmingham, AL 35294–4450, (205) 934–5371, FAX (205) 934–4792, e-mail: drdroom@uab.edu

Treasurer: Betsy Dobbins (2006), Dept. of Biology, Samford University, 800 Lakeshore Drive, Birmingham, AL, 35229, (205) 726-2937, FAX (205) 726-2479, e-mail: egdobbins@samford.edu

Editor: James Bradley (2005), Dept. of Biological Sciences, Auburn University, Auburn, AL 36849, (334) 844–9262, e-mail: bradljt@auburn.edu

State Counselor to the Junior Academy: B.J. Bateman (2005), Dept. of Math and Physics, Troy State University, Troy, AL 36082, (334) 670–3572, e-mail: bbateman@troyst.edu

Associate Counselor to the Junior Academy: Vacant

Associate Counselor to the Junior Academy: Wanda Phillips (2005), Brooks High School, 4300 Highway 72, Killen, AL 35645, (256) 757-2115, FAX (256) 757-1136, e-mail:

Coordinator of State Science Fairs: Virginia Valardi (2006), Wetumpka High School, 1251 Coosa River Parkway, Wetumpka, AL 36092, (334) 799-0104, home (334) 514-1770, e-mail: whsd5a@elmoreco.com or vilardiv@hotmail.com

Coordinator of State Science Olympiad: Jane D. Nall (2004), 31110 Wakefield Drive, Spanish Fort, AL 36527, (334) 621–2911, FAX (334) 625–7032, e-mail: drnall@hotmail.com

AAAS Representative: Stephen Watts (2004), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, (205) 934–2045, FAX (205) 975–6097, e-mail: sawatts@uab.edu

TRUSTEES:

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• Larry Boots (2004), 2455 Mahaska Drive, Birmingham, AL 35244, e-mail: bootsfamily@hotmail.com
• Ellen B. Buckner (2006), 204 School of Nursing, University of Alabama at Birmingham, Birmingham, AL 35294, (205) 934-6799, FAX (205) 975-6142, e-mail: bucknere@son.uab.edu
• Wayne Finley (2005), Lab. Medical Genetics, University of Alabama at Birmingham, Birmingham, AL 35294, e-mail: whfinley@bellsouth.net
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• Ken Marion (2005), Dept. of Biology, University of Alabama at Birmingham, Birmingham, AL 35294–1170, e-mail: kmarion@uab.edu
• Michael Moeller (2004), Box 5049, University of North Alabama, Florence, AL 35632, e-mail: mbmoeller@una.edu
• Eugene Omasta (2004), 113 Dendron Avenue, Troy, AL 36081, Chair, e-mail: eomasta@troyst.edu
• Prakash Sharma (2005), Dept. of Physics, Tuskegee University, Tuskegee, AL 36088, e-mail: psharma@tusk.edu
• Joseph C. Thomas (2006), 216 Doubletree Lane, Florence, AL 35630.
• Walter Wilborn (2005), Structural Research Center, 120 Novatan Road, Mobile, AL 36608, (251) 649-9740.
CHAIRPERSONS
APPOINTED COMMITTEES
2003-2004

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• B. J. Bateman, Physical Sciences Department, Troy State University, Troy, AL 36082, e-mail: bbateman@troyst.edu
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