1990


Academy Editors

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Secretary's Report
MINUTES OF THE SEVENTY-THIRD ANNUAL MEETING - APRIL 1990

FIRST BUSINESS MEETING

President Speairs called the meeting to order at 1245.

1. Speairs called Dave Chittenden to offer welcome to Arkansas State University. Chittenden also introduced the scheduled dinner speaker, Dr. Bassam Shakhashiri. Chittenden also extended offers of assistance from the various department offices located in the building.


3. Speairs called on the Secretary (Rickett) who presented the minutes from the 1989 Annual Meeting and asked for corrections or additions. Motion (Rickett, 2nd Rapp): To approve and accept the minutes as distributed contingent on receipt of corrections or additions. Secretary also called for corrections for his membership records. Secretary also asked any motions to be submitted in writing.

4. Speairs called on the Treasurer (Wiley) who presented the financial report with some explanation. The current financial status of the Academy is judged best ever. Wiley asked authors to pay page charges as soon as possible. Discussion arose re: page charges not collected. Wiley explained the mechanism is to refuse any further manuscripts from authors who have not paid past page charges. Speairs appointed an Audit Committee of Art Johnson, Tom Foti and Bill Bowen.
Arkansas Academy of Science

EXPENSES: 20 March 1989 to 20 March 1990

1. AWARDS
   a. Bryant Turbeville (#536) 25.00
   b. D. J. Cartwright (#259) 25.00
   c. Andre Meinel (#450) 50.00
   d. John D. Powers, Plaque - Arkansas Science Talent Search (#41)
   e. Arkansas Junior Academy of Science (#517)
   f. Arkansas Science Fair Association (#563)

   Total 593.58

2. PROCEEDINGS
   a. Philip Lith (Vol. 42) (#500) 7210.15
   b. Robin Mathews, Editorial Consultant Vol. 42 (#501)

   Total 7710.15

3. OFFICE EXPENSES
   a. Secretary's Office: Walt Godwin (#533, #544) 150.00
      John Rickert (#545) 125.00
   b. Treasurer's Office: Discount Office Products (#542)

   Total 322.87

4. ANNUAL MEETING EXPENSES (UAMS)
   a. The Shirt Shop (Plaque) (#532) 39.22
   b. David Clithers (Plaque) (#533)

   Total 125.60

5. NEWSLETTER
   a. Dean's Office - AHU (#534) 99.69
   b. Aprl. Exp. Station (#547) 30.24
   c. Jan. Asst. #11-6-1102 (#666) 30.16

   Total 157.09

6. UAMS - National Association of Academies of Science (#545)

   TOTAL EXPENSES $8939.03

5. Speairs asked the Secretary to report on the membership. The Academy probably has as many members as ever, but several are in arrears.

6. Speairs called on the Proceedings Editor (Barton) who reported that the current issue of the Proceedings is finished and available at the registration desk. Barton also asked authors to submit manuscripts intended for publication at this meeting. Motion (Barton, 2nd Beadles): That the Academy appropriate $500 for editorial assistance in the preparation of Volume 44 (1990) of the Proceedings.

7. Speairs called on the Newsletter Editor (Kluender) who reported on a successful year. Motion (Kluender, 2nd Robison): That the Academy appropriate $250 to cover the cost of the 1990-91 Newsletter. Kluender asked for clarity and promptness of information for the Newsletter.

8. Speairs called on the Director of Arkansas Science Fairs (Rapp) who reported that 800-1000 students participated. Rapp commended the regional directors. Motion (Rapp, 2nd Anderson): That the Academy appropriate $200 to support the activities of the Arkansas Science Fairs in 1990-91.

9. Speairs called for a report from the Arkansas (Westinghouse) Science Talent Search. Mike Rapp (for John Peck, in absentia) reported the winner was Michael L. Harrison of Batesville, AR with the paper, "My Formula Governing Higher Sums." His sponsor was Mr. Paul Reynolds of Batesville Senior High School. Motion (Rapp, 2nd Robison): That the Academy appropriate $100 to support the Arkansas Science Talent Search in 1990-91. Speairs also announced the Junior Science & Humanities Symposium was successful.

10. Mike Rapp (for Paul Krause, in absentia) submitted a Motion (2nd Robison): That the Academy appropriate $250 to support the Junior Academy of Science in 1990-91.

11. Speairs asked for the report from the Nominating Committee. Mike Rapp (for Don Culwell, Joe Guenter and Neal Buffaloe) submitted Alex Nisbet's nomination for Vice President (2nd Barton). Floor opened: Rapp nominated Mark Draganjaci, and Betty Speairs nominated Art Johnson. Beadles moved the nominations cease. Passed.

Floor opened for nominations to the office of Historian. Speairs nominated Henry Robison. No other nominations were received.

12. Speairs announced there was no report from the Biota Committee, but next year additional lists will be available.

13. Speairs called on Robbin Anderson who reported on the Science Education Committee. Anderson explained the restructuring of the committee and announced an open meeting to draw up plans for future activities.

14. Speairs appointed a Resolutions Committee of Gary Heidt, Dan England and John Pauley.

15. Speairs announced the presence (at this evening's dinner) of Dr. David Luck, Chairman of the Board of Higher Education. He should be available for questions.

16. Speairs announced that no invitation has been received for the 1992 meeting. Maybe one will come forth for the second business meeting.

17. Speairs asked the section chairmen to stay on time.

18. Speairs announced the social hour from 5-6 pm at the Ramada Inn.

President Speairs adjourned the meeting at 1320.

SECOND BUSINESS MEETING

President Speairs called the meeting to order at 1202 pm.

1. Speairs called for the approval of the minutes of the business meetings of the 1989 Annual Meeting of the Academy. Passed as presented.

2. Speairs called on the Adult Committee for a report. Art Johnson submitted a statement that the Audit Committee had examined the Treasurer's records and found them to be in order, having been kept with prudence. Motion (Johnson, 2nd Robison): That the Academy accept the Audit Committee's report. Passed.

Speairs then called for approval of the Treasurer's report. Passed without amendment.

3. Speairs called the Secretary to restate the motions made at the first business meeting for appropriations.

Motion (Barton, 2nd Beadles): $500 for editorial assistance Motion (Kluender, 2nd Robison): $250 for the Newsletter Motion (Rapp, 2nd Anderson): $200 for the Science Fairs Motion (Rapp, 2nd Robison): $100 for the Science Talent Search Motion (Rapp, 2nd Robison): $250 for the Junior Academy of Science
All motions passed with one vote without discussion.

4. Speairs asked Chittenden to report on the paper judging and announce the winners. Teresa Hines (UALR) won the life sciences award. A. Alzaam (UALR-CIT) won the physical sciences award, and M.D. Fletcher (ASU) won the graduate student award.

5. Speairs conducted the election of new officers. Robison was elected by acclamation to a new (5-year) term of Historian. Written ballots elected Art Johnson as Vice President.

6. Speairs called for the report from the Resolutions Committee, which was read by the Secretary:

Be it resolved that:

The members of the Arkansas Academy of Science express their sincere appreciation to the faculty, staff and students of Arkansas State University for hosting our 1990 meeting in their beautiful new facilities. The membership takes this opportunity to especially thank Dr. Larry Boucher, the Local Chairman and his local arrangements committee for the many hours they have worked on behalf of the membership to make this meeting such a success. The membership would like to draw attention to the meeting program in order to identify and thank the section chairpersons and individual presenters for an outstanding job.

Thanks are also extended to Richard K. Speairs, president; Robert L. Watson, president-elect; David Chittenden, immediate past president; the remaining officers and other members of the Executive Committee and other committees to the Academy whose cooperative efforts were so apparent during the meeting.

Finally we thank Dr. Bassam Shakhansari for his enlightening address and the Reng Center for providing an excellent dinner.

— Gary Heidi, John Pauley, Dan England

7. Motion (Harp, 2nd Godwin): That the report of the Resolutions Committee be approved. Passed.

8. Speairs called for old business. None was forthcoming.

9. Speairs called for new business.
   a. H. Robison announced the 1991 meeting will be the 75th Anniversary meeting for the Academy, and he is planning a historical display. He requested pictures of past officers and Academy events for this display.
   b. Speairs expressed appreciation for faculty and student support of the Academy meetings.

10. Watson's inaugural remarks:
   a. Let's use the 75th Anniversary meeting as an opportunity to reflect on past accomplishments and future encouragement.
   b. Let's get more involved in the Academy — bring students, build alliances with public schools and reclaim old friends in academia.
   c. Pledged service and asked for help and input.

11. Watson requested that as many copies of the Proceedings as possible be picked up and delivered to those not present.

12. Klunder asked about an invitation for the 1992 meeting: none has been received. Watson requested people give it serious thought and notify the Executive Committee.

13. Watson expressed thanks to Larry Boucher and the local arrangements committee for their efforts and bid him godspeed as he leaves Arkansas for a new position.

President Watson adjourned the meeting at 12:24 pm.

REGULAR MEMBERS 1990

| Roger Abernathy | Arkansas State University |
| Stephen A. Addison | University of Central Arkansas |
| Syed M. Aljaz | University of Arkansas at Pine Bluff |
| Bob Allen | Arkansas Tech University |
| Robert T. Allen | University of Arkansas |
| Silke Haunagel Allen | Hendrix College |
| Cynthia Annett | Univ. of Ark./Fayetteville |
| John T. Annulis | University of Arkansas at Monticello |
| Robert E. Bacon | University of Arkansas |
| Max L. Bakes | Univ. of Ark. for Medical Sci. |
| Kenneth R. Ball | Southern Arkansas University |
| Owen Barber | University of Central Arkansas |
| Sara Hane Barnett | Texas Education Agency & UT-Austin |
| Aledaphia M. Bassford | Henderson State University (Retired) |
| Vernon Bates | (Botanical Consultant) |
| John Kenneth Beadles | Arkansas State University |
| Helen Benes | University of Arkansas for Medical Sciences |
| Ann Marie Benson | University of Arkansas for Medical Sciences |
| Hal Bergel | Univ. Ark./Fayetteville |
| G. Bhuyanmooker | University of Arkansas for Medical Sciences |
| Veryl V. Board | Arkansas College |
| Marilyn S. Beckamick | Arkansas Tech University |
| Laurence J. Boucher | Arkansas State University |
| William R. Brown | University of Arkansas at Little Rock |
| Leo H. Bowman | Arkansas Tech University |
| Patricia Bracken | Christian Brothers College |
| Jimmy B. Bragg | Henderson State University |
| Wilfred J. Braithwaite | Univ. of Arkansas at Little Rock |
| Marge A. Brewster | University of Arkansas for Medical Sciences |
| John F. Bridgman | University of the Ozarks |
| Arthur V. Brown | University of Arkansas |
| Connell J. Brown | University of Arkansas |
| Helen G. Brown | Mississippi State University |
| Joseph M. Brown | Ouachita Baptist University |
| Richard H. Brown | Univ. of Arkansas at Little Rock |
| Susan G. Brown | University of Arkansas |
| William D. Brown | Water Resources Associates of Arkansas |
| Charles T. Bryant | Water Resources Associates of Arkansas |
| Charles T. Bryant, Jr. | University of Central Arkansas |
| Neal D. Buffaloe | Univ. of Arkansas at Little Rock |
| Gaylen Burmside | University of Arkansas/Fayetteville |
| Chris Cartwright | Arkansas Game & Fish Commission |
| Michael Carter | National Center for Toxicological Research |
| Carl L. Cerniglas | University of Arkansas State University |
| Phyllis Chatlin | Univ. of Ark. Cooperative Extension Service |
| Stanley L. Chapman | University of Central Arkansas |
| John S. Choloski, Jr. | University of Arkansas |
| Frances B. Clayton | University of Arkansas |
| Malcolm K. Cleaveland | Arkansas Tech University |
| Richard B. Cohoon | Univ. of Arkansas at Little Rock |
| Larry Coleman | Archives of Natural History |
| George W. Colton | Arkansas Geological Commission |
| Robert L. Cook | University of Arkansas |
| Janice O. Cooper | Arkansas State University |
| Robert M. Cordova | Cordoza Consulting |
| William Coutu | Univ. of Ark./Little Rock |
| Bob W. Cowling | Malvern High School |
| Randy T. Cox | University of Arkansas at Monticello |
Secretary's Report

ASSOCIATE MEMBERS 1990

George F. Klevins
Loren J. Gleisler
David Goed
Kevin D. Goldes
William Brian Harrod
Christopher G. Hemans
Brett Hoising
John Marr
Michael L. Martin

University of Arkansas at Little Rock
Champlain State College
University of Arkansas at Little Rock
Henderson State University
University of Arkansas
Hendrix College
University of Arkansas
University of Arkansas
University of Arkansas

Arkansas State University
University of Arkansas for Medical Sciences
University of Arkansas

SUSTAINING MEMBERS 1990

Harvey E. Barton
Judith A. Bean
John W. Bennett
Robert E. Bowling
Joseph M. Clark
Robert M. Crisp, Jr.
Donald Culwell
Edward E. Dale, Jr.
David L. Davies
Sheldon Fitzpatrick
Edmund E. Griffin
Mark Earnes
Leslie E. Eack
David L. Marsh

Arkansas State University
University of Central Arkansas
Arkansas State University
University of Arkansas
University of Arkansas
University of Central Arkansas
University of Arkansas
University of Arkansas
University of Arkansas

Horace N. Marvin
Daniel M. Machacek
Roland L. McDaniel
V. Rick McDaniel
Alex R. Miserb
Lance Peacock
Ervin W. Powell
Alan D. Price
Paul C. Sharrah
Samuel Siegel
John E. Stuckey
Eric Sundell
Richard B. Walker
Robert L. Watson

George L. Harp
Phoebe A. Harp
Leslie G. Howick
Ray Kinney
Gary Tucker
James G. Wear

SPONSORING MEMBERS 1990

David Chittenden
Lorris G. Cockering
Leo Carson Davis
Jim Edmon
Lowans Englad-Whaley
John T. Gilmour
Walter E. Godwin

Arkansas State University
NCTR Associated Universities
Southern Arkansas University
University of Arkansas at Monticello
Arkansas State University Alumus
University of Arkansas
University of Arkansas

George B. Anderson
Edmond J. Bacon
Robert H. Biddle
Mark Dragomjac
Daniel R. Englad
William L. Evans
James L. Frilough

University of Arkansas
University of Arkansas at Monticello
Univ. of Ark. Cooperative Extension Service
Arkansas State University
Southern Arkansas University
University of Arkansas
University of Arkansas

Arkansas State University
Arkansas State University
Arkansas State University
Arkansas State University
Arkansas State University
Arkansas State University
Arkansas State University

LIFE MEMBERS 1990

Robbie C. Anderson
Edmond J. Bacon
Robert H. Biddle
Mark Dragomjac
Daniel R. Englad
William L. Evans
James L. Frilough

University of Arkansas
University of Arkansas at Monticello
Univ. of Ark. Cooperative Extension Service
Arkansas State University
Southern Arkansas University
University of Arkansas
University of Arkansas

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## Arkansas Academy of Science

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<th>Name</th>
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<tr>
<td>Arthur A. Johnson</td>
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<td>Robert T. Kirkwood</td>
<td>University of Central Arkansas - Retired</td>
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<td>Robert W. Wiley</td>
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