

CONSOLIDATED MINUTES OF THE EIGHTY-NINTH ANNUAL MEETING OF THE SOUTH DAKOTA ACADEMY OF SCIENCE, CEDAR SHORE RESORT, OACOMA, SD 2-3 APRIL 2004

The Executive Council met at 7:00 a.m. Saturday 3 April 2004 for a final check of plans for the day.

President Miles Koppang opened the executive committee meeting and noted that a quorum was present.

A copy of the budget was distributed by Secretary Donna Hazelwood for Treasurer Kristel Bakker. Consensus of the Council was for Kristel to look into options for payment by credit card from the web site.

The following individuals were selected as Fellows of the South Dakota Academy of Science. Perry H. Rahn, South Dakota School of Mines and Technology and Robert Stoner, University of South Dakota. Nominations for Fellows for 2005 will involve a letter of nomination and brief biography, and will be due 1 October 2004.

Discussion on the location of future meetings involved the following options: 1) two campuses partner to host meetings; and 2) hosting at a central location such as Cedar Shore. Additional discussion included the addition of a symposium based on a topic of interest to the host institution, committee, and/or South Dakota. Guidelines for the symposia would include Friday afternoon symposium and poster session and contributed paper session on Saturday.

Bob Tatina reported that the membership committee created and sent out an electronic poster for membership and information about the 2004 meeting. The Council decided to follow up on membership again after the meeting. Consensus on membership was that membership will be the responsibility of all members and to include one-on-one invitations to new faculty to join. Membership in the Academy will be a requirement for publishing a paper in the Proceedings. In addition, membership will also be a requirement for attendance at meetings and presentation of papers or posters.

Donna Hazelwood and Kristel Bakker sent out eight award checks for \$25.00 each to each of the five South Dakota Regional Science Fairs. The regional science fairs and representatives are: 1) Aberdeen, Jodie Ramsay; 2) Brookings, Neil Reese; 3) Mitchell, Bob Tatina; 4) Rapid City, Andy Detwiler; and 5) Timberlake, Neil Reese. Each of the SDAS representatives will provide for publication in the Proceedings student name, school, teacher name, year in school, title of project. The abstract will also be provided, but will remain in the archives of the Academy and will not be published.

Ken Higgins reported that due to a change in software at the print shop, the 2003 Proceedings will be available and mailed out May 2004.

The 2005 annual meeting will be held at the University of Sioux Falls, Sioux Falls, SD, and will include a symposium based on a topic of interest to USF. The Executive Committee would like to follow a format similar to that for the 2004 meeting with a half-day symposium Friday 1 April and contributed paper

session Saturday 2 April. The 2006 meeting is scheduled to be held at Dakota Wesleyan University.

The Audit Committee will consist of Mark Gabel and Audrey Gabel.

The Nominating committee, Dave Swanson from USD, Mike Hildreth from SDSU, and Dave Siemens from BHSU, will have the following positions to fill. Second Vice President, and two members-at-large. Gary Earl and Neil Reese will be going off as members-at-large.

On behalf of the By-laws committee, Miles reported that the membership will need to vote on changes in the by-laws concerning the wording on selection of fellows, splitting the Secretary-Treasurer position into the positions of Secretary and Treasurer.

Registration for the Annual Meeting began 7:00 p.m. Thursday 1 April, continued 7:00 a.m. Friday 2 April and again 7:00 a.m. Saturday 3 April. Ken Higgins brought Terri Symens and Di Drake to assist with registration.

President Elect Andrew Detwiler gave an interesting presidential address entitled "In Search of a Golden Age for Science in South Dakota".

The business meeting was opened by President Miles Koppang. He noted that five former presidents were in attendance: Sharon Clay, Chuck Estee, Mark Gabel, Nels Granholm, and Jim Martin.

The Treasurer report was provided by Donna Hazelwood for Kristel Bakker. Mark Gabel and Audrey Gabel served as Auditing Committee. Neil Reese moved and Ken Higgins seconded that the treasurer's report be accepted as written. The motion passed by voice vote. The CD at Dakotah Bank will be allowed to roll-over for another term.

Elections were held for officers for 2004-2005. Bob Stoner moved and Charlie Lamb seconded nominations cease and members cast a unanimous ballot in favor for Second Vice-President Mike Wanous. The motion carried by voice vote. Bob Stoner moved and Neil Reese seconded that nominations for 2004-2006 member-at-large cease and members cast a unanimous ballot for John Naugard and Dave Swanson. The motion carried by voice vote.

Resolutions were proposed by the Resolutions Committee, Perry Rahn, Howard Coker, and Gary Johnson. Donna moved and Charles seconded the following resolutions: 1) thank Cedar Shore Resort and the local planning committee as listed in the program for the 2004 Academy meeting; 2) thank you for Andy Detwiler for his presidential address on "In Search of a Golden Age for Science in South Dakota" 3) thank you to Jim Martin for hosting the paleontology field trip, and Jeff Palmer for hosting the ornithology field trip; 4) a big thank to Gary Moulton for the keynote address, 4) commending President Miles Koppang for his direction and leadership, 6) thank you also to Jim Martin for hosting a symposium, 7) thank you to moderators Steve Chipps and Bob Tatina for moderating the Friday Symposium, 8) thanks to the secretaries Di Drake and Terri Symens for assisting with registration at the meeting; and 9) a special thanks goes to Editors Ken Higgins and Steve Chipps for their oversight of timely publication of the Proceedings. Charlie Lamb moved and Dave Swanson seconded acceptance of the resolutions. The motion carried by voice vote.

The by-laws committee, Miles Koppang, Bob Stoner, and Chuck Estee, introduced changes that need to be updated that have been voted upon. The

language of section 7 article 1 addressing for designation and approval of Fellows was modified. In addition the committee proposed that the by-laws include wording on the split of the Secretary-Treasurer position to include that the Secretary and Treasurer each have an equal vote. Bob Stoner moved and Jim Sorenson seconded approval. The motion passed by voice vote.

Ken Higgins, notified the membership that the 2003 Proceedings will be the last year in which he will be Proceedings Editor. The current Associate Proceedings Editor, Steve Chippis will assume duties as Editor for the 2004 Proceedings, and Ken will become Associate Editor, Ken requested electronic copies of the Presidential Address, By-laws changes and Resolutions Committee. Neil Reese reported that he and Tom Holmlund have downloaded in PDF format all issues from 1996-2002 and posted them to the website. He will wait one year to download the 2003 Proceedings. Ken moved and Jim Lefferts seconded acceptance of the Proceedings report. The motion passed by voice vote.

Ken requested that the Academy provide honoraria for assistance in the following amounts to Terri Symens \$300.00, Di Drake \$100.00, and Nancy Pre-shum \$100.00. Neil moved and Donna seconded a motion to give the amounts requested. The motion carried by a voice vote.

Discussion followed about the format and location of future meetings. Howard Coker moved and Bob Stoner seconded that the Executive Committee be given the authority to consider the alternative sites for the annual meeting in addition to meetings hosted by institutions. The motion carried by voice vote. Discussion about having a symposium in concurrence with the general meeting resulted in agreement that the choice of symposium not be restricted to the host institution but could be expanded to include ideas from membership. Consensus was that tying to the community was a good idea.

Outgoing President Miles Koppang turned the meeting over to President Andy Detwiler, and First Past-President Charlie Lamb presented Miles with a certificate of appreciation.

The 2005 meeting of the Academy will be at The University of Sioux Falls, and will follow the format of Friday symposium and papers and posters on Saturday.

Ken noted that normally the host institution for the annual meeting prints the program. For the 2004 meeting at Chamberlain, Ken will be in charge of printing the program.

Committee positions for 2004-2005 include

Membership	Bob Tatina to be filled
By-laws	Miles Koppang Bob Stoner Chuck Estee
Fellows	to be filled
Resolutions	to be filled
Nominations	to be filled
Publicity for 2005 meeting	to be filled

Several items for consideration at the fall meeting of the Executive Committee were discussed. 1) the 2005 meeting at USF; 2) nomination of individuals for Fellow; 3) recruitment of new members; 4) a new operations manual to replace the one that apparently has been lost; 5) assisting the five regional science fairs, providing prizes at the middle school level; 6) the 2006 meeting scheduled for Dakota Wesleyan University; and 7) the format and locations of future meetings.

*Respectfully submitted,
Donna Hazelwood, DSU
SDAS Secretary*

SOUTH DAKOTA ACADEMY OF SCIENCE 2003-2004 EXECUTIVE COMMITTEE

President	Miles Koppang, USD Chemistry, 677-5693 mkoppang@usd.edu
President-Elect	Andrew Detwiler, SDSM&T IAS, 394-1995 Andrew.Detwiler@sdsmt.edu; FAX394-6061
First Vice-President	Robert Tatina, DWU Biology, 995-2712 rotatina@dwu.edu
Second Vice-President	James Sorenson, MMC Biology, jsorenson@mtmc.edu
Secretary	Donna Hazelwood, DSU Natural Sciences 256-5187 Donna.Hazelwood@dsu.edu; FAX 256-5643
Treasurer	Kristel Bakker, DSU Natural Sciences 256-5182 Kristel.Bakker@dsu.edu; FAX 256-5643
Proceedings Editor	Kenneth F. Higgins, SDSU Wildlife, 688-4779 Terri.Symens@sdstate.edu; FAX 688-4515
Assistant Proceedings Editor	Steve Chipps, SDSU Wildlife, 688-5467 Steve.Chipps@sdstate.edu; FAX 688-4515
First Past President	Charles Lamb, BHSU Biology, 642-6026 CharlesLamb@bhsu.edu

Second Past President

Members-at-Large

2002-2004

Gary W. Earl, Augustana, Chemistry
Earl@inst.augie.edu; FAX 357-9772

2002-2004

R. Neil Reese, SDSU Biology/Microbiology, 688-4568
Neil.Reese@sdsstate.edu

2003-2005

Krisma DeWitt, Mount Marty College Chemistry 668-1530
kdewitt@mtmc.edu

2003-2005

Bill Soeffing, University of Sioux Falls, Biology 331-6759
Bill.Soeffing@usiuouxfalls.edu Report of the South Dakota

2004 REGIONAL SCIENCE FAIRS

The SDAS supports student interest and participation in science. Toward that end, representatives from the Academy presented eight \$25.00 awards at each of the five SD regional science fairs for a total of 40 awards. The awards were distributed as follows:

2004 Regional Science Fair Location: DWU, Mitchell, SD
SDAS representative: Bob Tatina

Student	School	Title of Project
Clarence Vanderlei	Avon Middle School	Can You Fix Your Dirt?
Emily Bartunek	Avon Middle School	Natural Or Commercial
Sarah Luebke	Corsica Middle School	Things Are Heating Up
Kaycee Kopfmann & Ashley Losing	Wessington Springs Middle School	Cordless Crystal Radio
Samantha Hohn & Amber Whing	Ethan Middle School	Which Type Of Water Is Best For Plants?
Tanner Duba & Cory Wegehaupt	Ethan Middle School	Golf Balls & Distance
Amanda Hintz & Alicia Schrank	Stickney Middle School	Corn Germination
Elizabeth Bosworth	White Lake Middle School	Flour Power

**2004 Regional Science Fair Location: Northern State University Campus—
Barnett Center—Aberdeen, SD
SDAS representative: Jodie Ramsay**

Student	School	Year	Teacher	Title of Project
Ben Volk & Chad Mitzel	Herreid School	7th	Gary Weismantel	Rise, Rise, Rise
Reid Turner	Aberdeen Simmons School	7th	Gus Erickson	Which Brown County Soil Grows The Best?
Cole Hogg	Faulkton School	7th	Gloria Bode	Do Different Traits Affect Multiple Births?
Hannah Wickard	Ipswich School	8th	Arlene Schopp	Does It Dehydrate?
Britany Schanzenbach & Erica Bender	Selby Area School	7th	Gary Fahrni	Storage "Do's & Don'ts" For Common Liquids
Bob Brown, Teacher	Aberdeen Simmons School			

**2004 Regional Science Fair Location: Timber Lake, SD
SDAS representative: Neil Reese**

Student	School	Year	Teacher	Title of Project
Cody Aberle, Brett Mayer, & Scott Biegler	Timber Lake School	9th	LuAnn Lindskov	How Does The Diameter, Type And Length Of Wire Affect Conductivity?
Megan Johnson	Timber Lake School	9th	LuAnn Lindskov	Do Antacids Affect The Way Antibiotics Work In The Human Stomach?
Jillaine Pfeifle & Emily Reinbold	Timber Lake School	9th	LuAnn Lindskov	Pain Tolerance
Jessica Stradinger	Isabel School	9th	Eric Mertens	How Does Ethylene Affect Crickets?
Travis Davis & Tal Wammen	Harding County School	8th	Matthew DeBow	Toybox Construction

2004 Regional Science Fair Location: Brookings, SD

SDAS representative: Neil Reese

Student	School	Year	Teacher	Title of Project
Nathan Iverson & Darin Anderson	Deubrook Area School	8th	Mike Knust	Which Pop Is The Most Harmful?
Ty Fuller	Henry School	10th	Janelle Stahl	Do Taller People Have A Greater Lung Capacity Than Shorter People?
Julianne Goltz	Hamlin Middle School	8th	Michelle Bartels	Smart Snacks
Cody Kreins	West Central Middle School	6th	David Heck	Power Of Soda Pop
Brian Sullivan	De Smet School	6th	Mark Birkel	Paper Towel Strength
Aldo Magana	Henry School	12th	Janelle Stahl	Propel Electro Magnetic Cannon
Mark Birkel Teacher	De Smet School			

2004 Regional Science Fair Location: Rapid City, SD

SDAS representative: Andrew Detwiler

Student	School	Year	Title of Project
Katherine O'Donahue	Spearfish Middle School	6th	Brain Games: Optical Illusions
James Sorensen	Wall Middle School	6th	Feel the Power
Tara Lorraine Correll	Edgemont Middle School	7th	How Does Your Brain React?
Chanz Timothy John Paddock	Black Hills Christian Academy (Rapid City)	8th	Can You Remember?
Preston Engesser & Justin Frasier	Spearfish Middle School	7th	Brain Power 2
Zachary Ryan Smith	West Middle School (Rapid City)	8th	Tidal Turbine
Kirstie Bradley	Spearfish Middle School	6th	What Type Of Material Is Best When Made Into A Hat?
Skye O' Brien	Belle Fourche Middle School	8th	Homemade or Commerical Carpet Cleaners?

SOUTH DAKOTA ACADEMY OF SCIENCE MARCH 31, 2004—PREPARED BY DI DRAKE

Proceedings Disbursements/Receivables

	2003	2002	2001	1996-2000	Total
Lay Out Formatting	2,490.35	2,251.25	2,836.5	4,185.00	11,763.10
Publication	4,000.00 *	3,978.76	4,997.00	14,127.47	27,103.23
Reprints	1028.42 *	1037.39	1178.98	3859.46	7104.25
Conversion to PDF File	1,600.00	0	0	0	1,600.00
Miscellaneous Printing	16.39	108.47	33.26	174.71	332.83
Supplies,Phone,Postage	101.60	328.61	450.29	429.69	1,310.19
TOTAL EXPENSES	9,236.76	7,704.48	9,496.03	22,776.33	49,213.6
TOTAL INVOICED	7,625.00	7,055.00	11,060.00	24,888.00	50,628.00
Profit / Loss to date	(1,611.76)	(649.48)	1,563.97	2,111.67	1,414.4

* Estimate

Cash Balance in SDSU-SD Academy of Science Proceedings Account

	2003	2002	2001	1996-2000	Total
Total Paid Expenses	(9,236.76)	(7,704.48)	(9,496.03)	(22,776.33)	(49,213.60)
Paid by SDAS-Treasurer				4,747.13	4,747.13
Payments Received	6,750.00	6,780.00	10,770.00	23,624.00	47,924.00
Paid to SDAS-Treasurer				(240.00)	(240.00)
Balance of SDSU Account	(2,486.76)	(924.48)	1,273.97	5,354.80	3,217.53
Percent of Paid Invoices	0.89	0.96	0.97	0.95	0.95
Unpaid Invoices	875.00	275.00	290.00	1,264.00	2,704.00

Estimated cash on hand after 2003 expenses: \$3,217.53

REPORT OF THE RESOLUTIONS COMMITTEE

The membership of the South Dakota Academy of Science thanks the Cedar Shores Resort for making the facilities available for the 2004 Academy annual meeting.

The Academy extends its thanks to the local planning committee for making arrangements for the meeting. The members are: Bob Tatina, Steve Chipps, Ken Higgins, Terri Symens, Donna Hazelwood, Kritel Bakker, and Jim Martin.

We appreciate the efforts to include two symposia at this year's meeting. Jim Martin and David Parris were the moderators for "Following in the footsteps of Lewis and Clark: The geology and paleontology of the Missouri River". Steve Chipps and Robert Tatina were moderators for "Recovering Lewis and Clark's

River: today's perspectives on the history, management, and ecology of the Missouri River".

We thank Gary Moulton for his lecture "The living legacies of Lewis and Clark".

President Miles Koppang is to be commended for his direction and leadership provided the Academy during this past year.

Thanks for secretarial help from Terri Symens, Di Drake, and Nancy Pre-shum. Thanks to Donna Hazelwood for being our Treasurer this past year.

Thanks to President-elect Andy Detwiler for his presidential address "Searching for the Golden Age of Science in South Dakota."

The Academy is pleased with the contributions of the paleontologists at this year's meeting. This includes the field trip "The geology and paleontology of the Missouri River." We also thank Kristel Bakker and Jeff Palmer for leading a field trip "Birds of the Missouri River."

The Academy expresses their thanks to Ken Higgins and Steve Chipps, editors of the Proceedings, for their dedication in producing a quality publication.

*Respectfully submitted,
Perry Rahn, Chairman
Gary Johnson
Howard Coker*

EXECUTIVE SUMMARY— PROCEEDINGS EDITORS

Volume 82 for 2003 totaled 379 pages and the production cost for 230 copies was \$5,730.35. Our overall Proceedings account balance to date is \$3,217.53. Copies have been mailed to all current members, all life members, all the State libraries and to abstract indexing providers.

*Respectfully submitted by:
Steven R. Chipps and Kenneth F. Higgins, Co-Editors
For the South Dakota Academy of Science Proceedings
August 31, 2003*

SDAS BUDGET SUMMARY FOR 2003

Beginning Balance: April 2003	\$9416.60
SDAS 2003 Meeting	
Registration copying DSU	-27.50
Miscellaneous (copying, etc) SDSMT	-121.30
Faculty Lounge SDSMT	-50.00
Banquet Radisson	-1,487.35
Terri Symens	-200.00
Di Drake	-100.00
Linda Embrock	-100.00
Memberships, Registration, Banquet	+3,412.00
2003 Executive Board Meeting in Chamberlain	-116.49
Science Fairs	-1,025.00
Miscellaneous costs (stamps)	-37.00
Dallas Jewelry, Vermillion (Engraving)	-360.00
Cash for 2004 SDAS	-300.00
Ending Balance April 2004	\$9276.99

*Respectfully submitted,
Kristel K. Bakker, Ph.D.
Treasurer, SDAS*

THE BY-LAWS of the SOUTH DAKOTA ACADEMY OF SCIENCE

ARTICLE I Members

SECTION 1. The membership of the Academy shall consist of members, associate members, life members, honorary members, and corporate members.

SECTION 2. Members shall be those persons interested in scientific work and research with the exception of those persons specified in Article I, Sections

3, 5, and 6. The right to vote and hold office shall be reserved to members and life members.

SECTION 3. Associate members shall be undergraduate/graduate students interested in scientific work: students may become full members upon recommendation by a majority of the membership committee and upon election by three-fourths of membership voting at an annual meeting.

SECTION 4. Life members. (a) Any member or applicant for membership who at one time shall contribute to the funds of the Academy ten times the annual dues may be elected a life member of the Academy and shall be exempt from payment of all dues and fees thereafter. (b) An individual who has been a member of the South Dakota Academy of Science for twenty-five years and who has reached the age of sixty-five years, shall be elected to life membership. He shall be exempt from payment of all dues and fees thereafter.

SECTION 5. Honorary members. Any person who has rendered conspicuous service in the advancement of science may be elected to honorary membership of the Academy. Honorary members shall be exempt from all dues and fees.

SECTION 6. For election to membership, the candidate's name must be proposed by two members, be approved by a majority of the Committee on Membership, and receive the assent of three-fourths of the members voting. Honorary and life members will be elected by a vote of members at an annual meeting upon recommendation of the Membership Committee. A three-fourths majority of those voting will be required for election.

SECTION 7. Academy Fellows. A member of the South Dakota Academy of Science may be designated as an Academy Fellow; an honor afforded to those members whose years of service to the Academy and the promotion of science in the state and nation is meritorious. Nominations for fellows will be solicited annually from the membership. Nominees must be active members of the Academy for a total of at least 10 years. The nominee will have made outstanding contributions in the area of specialization whether in research, teaching, extension, service, or private service activities. The nomination will include a letter of recommendation about the nominee including degrees received, professional positions held, membership in honorary academic societies, honors and awards received since baccalaureate degree, service to SDAS in appointed and elected positions, and professional achievements in science (teaching, extension, investigative, service, leadership). Review of nominations and designation of the title Honorary Fellow will be initially conducted by the Executive Committee. When the membership of active Honorary Fellows reaches a critical mass (more than 10 members), the review and designation of Honorary Fellow will be conducted by the active group of Honorary Fellows. If the membership of active Fellows falls below the critical mass, then the Executive Committee will assist with the selection of Honorary Fellows.

SECTION 8. The Junior Academy of Science shall consist of high school students interested in science. The organization of the Junior Academy, membership requirements, dues, and time of meetings, shall be regulated by the Committee of the Academy for Junior Academy Activities. Ordinarily, the Junior Academy will hold its annual meeting at the time and place designated for the annual meeting of the Senior Academy. The annual report of the Junior Academy shall be published in the Proceedings of the South Dakota Academy of Science for the current year.

SECTION 9. Corporate members shall consist of such organizations and business concerns which shall wish to affiliate with the South Dakota Academy of Science. Such members shall pay annual dues as determined and published by the Academy.

ARTICLE II

Officers

SECTION 1. The officers of the Academy shall consist of a President; a President-elect who will automatically succeed to the President at the time of the next annual election of officers or as specified in Article II, Section 5; a First Vice-President; a Second Vice-President; a Secretary, a Treasurer; and an Editor of the Proceedings of the South Dakota Academy of Science. These officers, with the exception of the President, the Secretary and the Treasurer, shall be elected annually by a majority vote of those members voting at the annual meeting or as specified in Article II, Section 5. The Secretary and Treasurer shall serve for a term of three years. At the annual meeting prior to the third year of the term of the Secretary and Treasurer, a Secretary-elect and Treasurer-elect shall be elected by a majority vote of those members voting at the annual meeting or as specified by Article II, Section 5. The Secretary-elect and the Treasurer-elect will automatically succeed to the Secretary and Treasurer, respectively, at the time of the next annual election of officers or as specified by Article II, Section 5. All officers shall perform the duties usually pertaining to their offices.

SECTION 2. The President-elect at each annual meeting shall appoint a nominating committee of five active members, no two of whom shall be from the same county. It shall be their duty to recommend candidates for the several offices and for elected committees. This slate of officers shall be presented to the members and be voted on at the next annual meeting. This list shall present the names of two nominees for the office of Second Vice-President, one of whom shall be elected to the office. Nominations for candidates other than those presented by the nominating committee may be made by any member in accordance with Robert's Rules of Order.

SECTION 3. It shall be one of the duties of the President-elect to prepare an address which shall be delivered before the Academy at the opening of the annual meeting.

SECTION 4. The President shall present to the members at the annual meeting such actions of the Council as are contained in Article III, Section 2 and those subject to ratification by the membership.

SECTION 5. Upon death or resignation of the President, the President-elect shall immediately assume the office of the President; upon the death or resignation of the President-elect or First Vice-President, the vacant office shall be filled by the officer immediately below the vacancy. The remaining vacancy or any other vacancy in any position on the Executive Council or any other elective position in the Academy, with the exception of the First and Second Past Presidents, shall be filled by the Executive Council voting upon two persons for each position nominated by the President.

ARTICLE III Council

SECTION 1. The Executive Council of the South Dakota Academy of Science shall consist of the President, First Past-President, the President-elect, First and Second Vice-Presidents, and Secretary-Treasurer of the Academy. In addition, the Second Past-President, the Editor of the Proceedings of the South Dakota Academy of Science, and four members at large, to be elected at the time of the election of other officers and in the manner of their election, are to be included. These four members at large are to be elected from the membership to serve for two-year terms except that two shall be elected each year. At the time of the initial election of these members, two will be elected for a one-year term.

SECTION 2. To the Council shall be entrusted the management of the affairs of the Academy during the intervals between regular meetings. No extraordinary act of the Council shall remain in force beyond the next following annual meeting without specific ratification by the members. The President may call special meetings of the Council and shall call such a meeting upon written request by three members. The members of the Executive Council shall constitute the membership of the Board of Directors of the South Dakota Academy of Science.

ARTICLE IV Committees

SECTION 1. The standing committees of the Academy shall be a Committee on Publications, a Committee on Membership, a Committee on Junior Academy Activities, a Resolutions Committee, and a Nominating Committee.

SECTION 2. The Committee on Publications shall consist of the President, the Secretary, and the Editor. In addition, this committee may call upon one or more members to serve in any specific case. This committee shall be empowered to specify the conditions for the publication of papers in the Proceedings of the South Dakota Academy of Science. The Editor shall serve as chairperson of this committee.}

SECTION 3. The Committee on Membership shall consist of eight members who reside in different regions of the state and who represent different levels of education, areas of research, and fields of employment. They shall be elected annually by ballot. The Nominating Committee shall present a list of candidates at the time of the annual meeting. The chairperson shall be appointed from the committee by the President. The Membership Committee shall conduct an annual membership campaign among all educational, service and research institutions of the state. This campaign will include the distribution of informational brochures and membership applications.}

SECTION 4. The Committee on Junior Academy Activities shall consist of five members to be elected annually by ballot. The nominating committee shall present a list of candidates at the time of the annual meeting. The chairperson shall be appointed from the committee by the President. The Junior Academy Committee shall conduct all business and meetings pertaining to the operation of the South Dakota Junior Academy of Science.

SECTION 5. The President shall appoint the Academy Representative to the Council of the American Association for the Advancement of Science and to the Academy Conference.

SECTION 6. The President shall appoint annually an Auditing Committee of three members which shall audit the books of the Secretary-Treasurer prior to the annual meeting and report the results of this audit at the business meeting.

SECTION 7. The Resolutions Committee shall consist of three members to be appointed annually by the Academy President. The chairperson shall be appointed from the committee by the President. The Resolutions Committee is charged with the responsibility of presenting any special policies, recommendations, or recognitions to the membership of the Academy at the annual meeting for a vote of adoption.

ARTICLE V

Meetings

SECTION 1. The regular meetings of the Academy shall be held at such time and place as the Council Members may designate. Special meetings may be called by the Council and shall be called upon the written request of fifteen members.

SECTION 2. The annual meeting shall be in the spring of each year. At that time the Annual Banquet and Academy Lecture will be held. This annual meeting will ordinarily be held at one of the colleges or universities of the state of South Dakota. The host institution shall be determined by the Executive Council. The host institution will select the speaker who will deliver the Annual Academy Lecture.

ARTICLE VI
Publications

SECTION 1. The regular publications of the Academy shall include the Proceedings of the South Dakota Academy of Science, which will contain such papers, presented by members and associate members of the Academy, as are deemed suitable by the Committee on Publications.

SECTION 2. The publication of papers by persons not members of the South Dakota Academy of Science and of papers by members of the Junior Academy shall be determined by the Editorial Committee as stated in Article IV, Section 2.

SECTION 3. All members in good standing shall receive gratis the current issues of the publications of the Academy.

ARTICLE VII
Order of Business

SECTION 1. The following shall be the regular order of business:

1. Call to order and report by the President
2. Reports of the Secretary-Treasurer
3. Reports of Officers
4. Reports of Standing Committees
5. Election of New Members
6. Reports of Special Committees
7. Unfinished Business
8. New Business
9. Election of Officers
10. Appointment of Special Committees
11. Adjournment

The program may be interpolated in the order of business according to convenience.

ARTICLE VIII
Annual Meetings and Fiscal Year

SECTION 1. No meeting of the Academy shall be held without notice sent by the Secretary-Treasurer to all members at least ten days before the date of the proposed meeting.

SECTION 2. The members present at the annual meeting shall constitute a quorum of the Academy. The majority of the Council Members shall constitute a quorum of the Council.

SECTION 3. The fiscal year of the Academy shall extend from January 1 through December 31.

ARTICLE IX
Administration of Funds for the Junior Academy

SECTION 1. Funds received annually from the American Association for the Advancement of Science for research activities shall be awarded by the Junior Academy Activities Committee of the Academy to selected Junior Academy members in accordance with the intent of the policy of the AAAS. The two annual AAAS honorary memberships shall be awarded by this committee. The committee will inform the Secretary-Treasurer in writing of the names of recipients of awards and their home addresses.

SECTION 2. The dues of the members of the Junior Academy and other funds acquired shall be deposited with the Secretary-Treasurer and expended by the Treasurer of the Junior Academy through such procedure as the Secretary-Treasurer may indicate.

ARTICLE X
Dues and Assessments

SECTION 1. Each member shall pay an initiation fee and annual dues as determined by the Academy.

SECTION 2. Undergraduate students shall become associate members through recommendation by a member and by payment of an annual fee as determined by the Academy.

SECTION 3. Members who shall allow their dues to remain unpaid for two consecutive years (computed at the time of the closing session of the Annual Meeting), after having been annually notified by the Secretary, shall have their names stricken from the roll. No member who is in arrears shall be entitled to vote.

ARTICLE XI
Duties of the Secretary and the Treasurer

SECTION 1. The Secretary shall keep a record of all meetings of the Academy and of the Executive Council, and shall prepare these records for publication. The Secretary shall conduct all correspondence relating to the Academy. The Secretary shall have charge of the preparation, printing, and mailing of circulars, blanks, announcements of meetings, and other materials of a similar nature. At the annual meeting the Secretary shall present to the incoming Local Arrangements Chairperson a document including customary procedures for arranging the upcoming meeting. After each annual meeting, the Secretary shall send to each incoming member of the Executive Council a copy of the By-Laws.

SECTION 2. The Treasurer shall collect dues, mail notices of arrears in dues, receive and disburse all funds of the Academy, and have custody of all

funds. The books are subject to annual audit. The Secretary-Treasurer is authorized to expend such funds as are necessary to conduct the business of the office. All other disbursements are to be authorized by the Executive Council or by the members at the time of the annual meeting.

SECTION 3. The Treasurer shall be empowered to accept such grants, gifts, and bequests as may be offered to the Academy. Stipulations as to the use of such sums as may be made by the donors shall be subject to the approval of the Executive Council.

SECTION 4. The Treasurer shall have charge of the distribution, sale, and exchange of the published transactions of the Academy, under such restrictions as may be imposed by the Council. The Treasurer shall have charge of all books, collections, and materials belonging to the Academy.

ARTICLE XII Presentation of Papers

SECTION 1. The Secretary shall notify all members in ample time before any meeting at which papers may be presented, and papers to be read must be filed with the Secretary by title and abstract at a time to be designated by the Secretary. Papers presented by associate members must, in addition, be co-authored, sponsored, or approved by a member. It shall be the duty of the Secretary to arrange the program for the annual meeting and to provide copies of the program for the use of the members.

ARTICLE XIII Additions, Amendments, or Changes in the Articles of Incorporation and the By-Laws

SECTION 1. The Articles of Incorporation may be amended by a three-fourths vote of members voting at an annual meeting, provided that notice of the desired change has been sent by the Secretary to all members at least twenty days before such meeting. Members may vote by mail and have their vote recorded in the minutes.

SECTION 2. By-Laws may be adopted, suspended, or amended by a three-fourths vote of the members present at any annual meeting.

SECTION 3. Any changes in the Constitution or the By-Laws of the Academy, or additions or amendments thereto, shall be made in compliance with such laws of the State of South Dakota as govern or regulate educational and scientific corporations.

SECTION 4. The rules contained in Robert's Rules of Order shall govern the Academy in all cases in which they are not inconsistent with the By-Laws of the South Dakota Academy of Science.