

**CONSOLIDATED MINUTES OF THE
EIGHTY-SEVENTH ANNUAL MEETING OF
THE SOUTH DAKOTA ACADEMY OF SCIENCE
APRIL 5, 2002
AUGUSTANA COLLEGE, SIOUX FALLS, SD**

The Executive Council met at 8:00 a.m. Friday 5 April 2002 for a final check of plans for the day.

President Charles Lamb opened the executive committee meeting, noted that a quorum was present, and thanked Ken Higgins for timely presentation of the 2001 Proceedings.

Ken Higgins reported that the 2001 Proceedings has been printed and distributed to members. Because the funds in the proceedings account are sufficient to cover expenses and the abstracting services that Steve Chipps has contacted do not charge the Academy, Ken suggested that it would be possible to gift funds to the SDAS general fund to assist with expenses for the 2004 meeting in Chamberlain. Ken moved and Bill Soeffing seconded that the Treasurer will bill the Proceedings Account and the Proceedings account will gift back the sum of \$2,000.00 or \$3,000.00 to partially cover expenses for the 2004 annual meeting. The motion passed by voice vote.

Krisma DeWitt reported that Mount Marty College has graciously accepted the invitation to become part of the rotation of hosting institutions for the Annual Meeting.

The executive committee voted to allow the choice of meeting dates for the Annual Meeting of either Friday or Saturday will be the prerogative of the host institution.

Neil Reese moved and Dave Swanson seconded that the procedure for selection of Fellows be modified to allow the format for nomination to consist of a brief letter of recommendation. Names of individuals for consideration will be forwarded to, or may originate with, the Executive Committee. The motion passed by unanimous voice vote. Bob Tatina moved and Steve Chipps seconded a motion that the President appoint one member of the executive committee, or ask for a member to volunteer to solicit nomination of Fellows at the Business Meeting. The motion passed by voice vote. Krisma DeWitt volunteered to contact each campus to solicit nominations of one or more Fellows.

Ken Higgins reported that the By-laws need to be revisited and updated. A committee will be appointed.

Ken Higgins moved and Neil Reese seconded that the position of Secretary-Treasurer be split into two positions. The motion passed by unanimous voice vote.

The 2004 annual meeting will be held on the Missouri River at Cedar Shore Resort, Chamberlain, SD, and will have an emphasis on The Missouri River and/or Lewis and Clark. This meeting will not have a host institution,

but instead will have an Organizing Committee consisting of Ken Higgins, Chair, Miles Koppang, Bill Soeffing, and Donna Hazelwood. This meeting will consist of invited speakers Friday 2 April and paper sessions Saturday 3 April. The treasury of the Academy will support the cost of the keynote speaker to be selected by the committee. The Speaker Selection Committee includes Ken Higgins, Steve Chipps, Miles Koppang, Charles Lamb, Bill Soeffing, Bob Tatina, and Neil Reese. Jim Martin will arrange fieldtrips. In addition, Ken Higgins will be point person for the Program Committee.

Registration for the Annual Meeting began at 7:30 a.m. this morning. Ken Higgins brought Terri Symens, and Mike Wanous has lined up Cheryl Holzapfel to assist with registration.

The Nominating committee will have the following positions to fill, Secretary, Treasurer, Second Vice President, and two members-at-large. Bill Soeffing and Mike Wanous will be going off as members-at-large.

Kristel Bakker provided the Treasurer's report. Audrey Gabel and Mark Gabel served as Auditing Committee. The CD at Dakotah Bank will be allowed to rollover for another term. The duties of Treasurer and the checkbook were passed to Kristel 1 June 2001.

The 2003 meeting of the Academy will be at South Dakota School of Mines and Technology and the 2004 meeting will be at Cedar Shore Resort Chamberlain SD. The executive committee will meet in Chamberlain, early Fall, most likely September.

Ken Higgins provided the Proceedings report and had already passed out copies of the 2001 proceedings. Page costs are \$25.00/page. The Academy is responsible for mailing copies to members and the Academy pays for the cost of mailing copies of the proceedings to participating Libraries. The cost of an issue of the Proceedings is currently \$10.00 including postage.

Ken suggested that the Academy provide honoraria in the following amounts to Terri Symens \$200.00, Di Drake \$100.00, and Cheryl Holzapfel \$100.00. Neil requested \$500.00 to pay for a student to assist with the Academy web site.

Elections were held and officers for 2002-2003 are: members at large 2002-2004 Neil Reese and Gary Earl, Second vice-President Bob Tatina, Secretary Donna Hazelwood, and Treasurer Kristel Bakker. Audrey Gambel moved and Krisma DeWitt seconded acceptance of the nominations. The motion carried by voice vote.

Committee positions for 2002-2003 include:

<i>Membership</i>	<i>Bob Tatina</i>
	<i>Maurine Diggins</i>
<i>Bylaws</i>	<i>Miles Koppang</i>
	<i>Bob Stoner</i>
	<i>Chuck Estee</i>
<i>Resolutions</i>	<i>to be filled</i>
<i>Nominations</i>	<i>to be filled</i>

Andy Detweiler reported on the status of involvement of the Academy and Regional Science fairs. South Dakota hosts five regional science fairs, and the Academy could help by careful scheduling of Annual Meeting to not conflict with regional fairs, assisting with judging, donation of prizes especially at the middle school level, and providing to the five regional directors an e-mail list of members of the academy to allow for selection of judges of regional science fairs. Neil Reese moved and Mark Gabel seconded that the five regional directors be provided an e-mail list of members of the academy to allow for selection of judges of regional science fairs. The list to be distributed by the executive committee fall 2002. The motion passed by voice vote.

Nels Granholm reported that a meeting on Bioethics will be held 1-7 June in Madison, Wisconsin. This meeting will address introduction of concepts of ethics in classrooms.

Several items for consideration at the fall meeting of the Executive Committee were discussed. 1) Ken pointed out that the by-laws were last updated in 1989 and need to be updated. 2) The 2004 meeting including examination of proposed speakers for the general session Friday 2 April. 3) Nomination of individuals for Fellows Awards. 4) Recruitment of new members. 5) A new operations manual to replace the one that apparently has been lost. 6) Assisting the five regional science fairs, providing prizes at the middle school level. Miles and Andy will brainstorm and bring a report to the meeting.

President Charles Lamb opened the meeting on Friday 5 April, Local Arrangements Committee Chair Milton Hanson welcomed all to campus, and Bruce A. Halverson, President of Augustana College, extended his welcome. In his address at the opening session, President-Elect Steven McDowell discussed Reflections on Science in South Dakota. Papers for the Academy began at 10:00 a.m. Friday 5 April, and continued throughout the day. Seventy-three papers were presented. The Keynote speaker, Joy B. Zedler, presented "Invasive Species in Wetlands: Unwanted Guests or Total Conquerors." One hundred sixteen individuals attended the annual meeting, 61 regular members and 55 associate members.

Respectfully submitted,
Donna Hazelwood, DSU
SDAS Secretary

**SOUTH DAKOTA ACADEMY OF SCIENCE
2001-2002 EXECUTIVE COMMITTEE**

PRESIDENT	Steve McDowell, SDSM&T Chemistry 394-1229 smcdowel@msmailgw.sdsmt.edu; FAX 394-1232
PRESIDENT-ELECT	Miles Koppang, USD Chemistry 677-5011 Mkoppang@usd.edu
FIRST VICE-PRESIDENT	Andrew Detwiler, SDSM&T IAS 394-2291 adetwile@msmailgw.sdsmt.edu; FAX 605-394-6061
SECOND VICE-PRESIDENT	Robert Tatina, DWU Biology 995-2712 rotatina@dwu.edu
CO-SECRETARY TREASURER	Donna Hazelwood, DSU Natural Sciences 256-5187 Donna.Hazelwood@dsu.edu; FAX 256-5643
CO-SECRETARY 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
ASST. 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	Lenore Koczon, NSU Chemistry, University College, 626-2633 koczonl@northern.edu; FAX 626-3317
MEMBERS-AT-LARGE	
2001-2003	Krisma DeWitt, Mount Marty College Chemistry 668-1530 kdewitt@mtmc.edu
2001-2003	James Lefferts, Dakota Wesleyan University Chemistry jileffer@dwu.edu
2002-2004	Gary W. Earl, Augustana Chemistry Earl@inst.auggie.edu; FAX 357-9772
2002-2004	R. Neil Reese, SDSU Biology 688-4568 Neil_Reese@sdstate.edu

REPORT OF THE 2002 RESOLUTIONS COMMITTEE

The South Dakota Academy of Science wishes to thank Augustana College for hosting the 2002 meeting. In particular, we thank Bruce A. Halverson, President of Augustana College, and are grateful to the local arrangements committee — Milton Hanson, Michael Wanous, Cheryl Holzapfel, Jay Smith, John Larkin, Maureen Diggins, Duane Weisshaar, Steve Shum, and Tim Sorenson and to the program committee — Ken Higgins, Steve Chipps, Michael Wanous, Terri Symens and Cheryl Holzapfel, for their hard work in producing an excellent meeting. A special thanks also to the several Augustana students for their assistance.

Thank you to Charles Lamb for his dedication as President of the Academy for the past year. Thank you also to Steven McDowell, President-Elect, for his address on "Reflections of Science in South Dakota and on Vitamin B₁₂".

The Academy wishes to thank Donna Hazelwood and Kristel Bakker for their service as Secretary-Treasurer over the past year. A special thanks goes to Editors Ken Higgins and Steve Chipps for their oversight of timely publication of the Proceedings.

The Academy was also enlightened by the Public Lecture on "Invasive Species in Wetlands: Unwanted Guests or Total Conquerors?" by Dr. Joy B. Zedler, from the University of Wisconsin-Madison. Dr. Zedler was also a former Augustana College graduate.

Respectfully submitted,
Gary Larson, Resolutions Committee

TREASURER'S REPORT

June 1, 2001

Starting Balance **\$11,306.64**

Deposit	20.00	
Withdrawals	124.38	Brookings Engraving
	100.00	Terri Symens
	100.00	Di Drake
	81.00	AmericInn Conference Room
	85.00	Cedar Shores Lunch
	143.64	USD Biology Department (2001 SDAS)

Ending Balance: **\$10,692.62 (2001)**

SDAS Treasurer, Kristel K. Bakker

EXECUTIVE SUMMARY, 2002 — PROCEEDINGS EDITORS

Volume 80 for 2001 totaled 457 pages and the production cost for 324 copies was \$8,637.04. As of March 27, 2002, invoices for page and reprint charges totaled \$11,060 for an estimated profit of \$2,194.02. To date \$10,490 has been received and deposited in the Academy account for a profit of \$1,852.96. Our overall Proceedings account balance to date is \$6,476.24.

Copies have been mailed to all current members, all life members, all the State libraries and to eight indexing services.

Respectfully Submitted by:

Kenneth F. Higgins, Editor and

Steven R. Chipps, Assistant Editor

For the S.D. Academy of Science Proceedings

March 28, 2002

APRIL 5, 2002

BUSINESS MEETING REPORT – SDAS

BY: K.F. HIGGINS, PROCEEDINGS EDITOR

AND S.R. CHIPPS, ASSISTANT EDITOR

1. First, we want to thank those who helped us manage and produce the 2001 Proceedings:
 - Terri Symens – Invoices, Mailing Labels, Correspondence and Entering Names and Titles for the Program*
 - Tom Holmlund – Proceedings Layout, Figure Scanning and Final Copy Formatting*
 - Donna Hazelwood – For Meeting Notes, etc.*
 - And several members who helped with obtaining member names and addresses at various Universities or Colleges*
2. We're happy to report that the 2001 Volume 80 of the Academy Proceedings have been published and distributed. It totaled 457 pages and costs were: \$2,836.50 layout, \$4,714.15 printing, and \$1,086.39 reprints for a production cost of \$8,637.04.
3. Finances for producing 324 copies of the Proceedings plus article reprints appear to be adequate, given the \$25 rate per printed article or abstract page plus reprint costs. The use of the SDSU accounting system has been a positive action to date. Please refer to the Finance Summary Page for details of the account (see the green sheet).
4. The USD Library system is the repository and distributor of past volumes of Academy Proceedings. Joe Edelen is the contact person. They will provide storage, shelving and mailing of requested volumes, but the academy will have to handle invoices and collection of payments. He says most libraries sell extra copies of Proceedings for \$5-10 per copy.
5. We have delivered copies of the 2001 Proceedings to all University Libraries for the schools usually represented at the Academy meetings.

6. We have also submitted two copies of the 2000 and 2001 Proceedings to the contact for the National Academies — Tom Weaks, SASA Managing Editor, AcadSci, Inc., Box 141, Cumberland City, TN 37050.
7. We are gaining on the request to receive all abstracts and papers on electronic files (diskettes). We only had 2 or 3 submissions in 2001 that we had to scan or retype in Word or WordPerfect. We have over 70 papers and abstracts for 2002.
8. We recently increased the indexing coverage of the "Proceedings" by contacting numerous abstracting/indexing services. Six out of nine indexing services agreed to include "Proceedings of the South Dakota Academy of Sciences" in their Journals list. Table 1 lists these indexing services, the disciplines covered, contact information and web site access. All of the services are provided with a complimentary subscription to "Proceedings" and have been forwarded all back issues so they are up-to-date (e.g., through 2001). I checked several of these services to verify that Proceedings was listed in their Journals list and found that Proceedings is currently listed. AGRICOLA is reviewing recent issues and should let us know if they wish to include Proceedings in their Journal index. Several services were quite selective in the journals that they cover. Indexing services that decided not to include Proceedings are listed in Table 2. With this increase in coverage, we anticipate that more people will have access to information covered in Proceedings. To maintain this effort, we continue to look for appropriate indexing services and are open to suggestions from the membership for enhancing coverage of the Proceedings. Please forward questions/suggestions to Steve Chipps at steve_chipps@sdstate.edu (605.688.5467).

Table 1. List of indexing services that include "Proceedings of the South Dakota Academy of Sciences".

Indexing Service	Coverage	Contact	Web page access
<i>Cambridge Scientific Abstracts</i>	Aerospace Aquatic Sciences and Fisheries Sociological Abstracts	Dr. Craig W. Emerson Director of Editorial Operations 7200 Wisconsin Ave. Bethesda, MD 20814	www.csa.com
<i>GeoRef</i>	Geology/Physical Sciences	Library American Geological Institute 4220 King Street Alexandria, VA 22302-1502	www.agiweb.org/georef.html
<i>National Information Services Corporation (NISC)</i>	Wildlife Abstracts Fisheries Abstracts	NISC Colorado Attn: Luana Heikes 1302 S. Shields Street, #A2-4 Fort Collins, CO 80521 NISC USA Attn: Debbie Durr 3100 Saint Paul St., Suite 806 Baltimore, MD 21218	www.nisc.com
<i>Chemical Abstracts Service</i>	Chemistry Abstracts	Margit Ballard Acquisitions Chemical Abstracts Service—CAS PO Box 3012 Columbus, OH 43210	www.cas.org

Table 1 (continued). List of indexing services that include "Proceedings of the South Dakota Academy of Sciences".

Indexing Service	Coverage	Contact	Web page access
<i>State Academy of Science Abstracts</i>	Proceedings of State Academies	State Academies of Science Abstracts AcadSci, Inc. PO Box 141 Cumberland City, TN 37050	www.acadsci.com
<i>Abstracts in Anthropology</i>	Anthropology Abstracts	Baywood Publishing, Inc. 26 Austin Ave. Box 337 Amityville, NY 11701	www.baywood.com
<i>AGRICOLA</i> ^a	Agriculture	Sally Sinn Agricola Journal Evaluation Panel Technical Services Division National Agricultural Library 10301 Baltimore Ave. Beltsville, MD 20705	www.nal.usda.gov/ag98/

^a Proceedings are currently being reviewed by Journals Panel.

Table 2. Indexing services that were contacted but decided not to include *Proceedings of the South Dakota Academy of Science*.

Indexing Service	Coverage	Comment
<i>INSPEC</i>	Physics/Engineering	Covers primary, peer-reviewed journals
<i>BIOSIS</i>	Biological Abstracts	Too selective
<i>Current Contents (ISI)</i>	Miscellaneous	Too selective

PROCEEDINGS DISBURSEMENTS/RECEIVABLES

Prepared by Di Drake, March 27, 2002

	1996	1997	1998	1999	2000	2001	Total
<i>Layout/Formatting</i>	1,194.00	1,221.00	0.00	990.00	780.00	2,836.50	7,021.50
<i>Publication</i>	2,899.00	3,441.80	2,245.95	2,954.80	2,585.92	4,714.15	18,841.62
<i>Reprints</i>	677.88	1,034.67	1,526.17	299.75	823.57	1,086.39	5,448.43
<i>Miscellaneous Printing</i>	5.22	54.51	45.72		69.26	17.47	192.18
<i>Supplies, Phone, Postage</i>	37.70	104.88	160.56		126.55	211.47	641.16
TOTAL EXPENSES	4,813.80	5,856.86	3,978.40	4,244.55	4,385.30	8,865.98	32,144.89
TOTAL INVOICED	4,875.00	7,348.00	3,830.00	5,200.00	3,635.00	11,060.00	35,948.00
Profit / Loss to date	61.20	1,491.14	-148.40	955.45	-750.30	2,194.02	3,803.11

**CASH BALANCE IN SDSU — SOUTH DAKOTA
ACADEMY OF SCIENCE PROCEEDINGS ACCOUNT**

Prepared by Di Drake, March 27, 2002

	1996	1997	1998	1999	2000	2001	Total
<i>Total Paid Expenses</i>	-4,813.80	-5,856.86	-3,978.40	-4,244.55	-4,385.30	-8,865.98	-32,144.89
<i>Paid by SDAS Treasurer</i>	502.58			4,244.55			4,747.13
<i>Payments Received</i>	4,600.00	7,334.00	2,990.00	4,640.00	3,010.00	10,490.00	33,064.00
<i>Corrections Est</i>			275.00	250.00	525.00		1,050.00
<i>Paid to SDAS-Treasurer</i>			-240.00				-240.00
<i>Balance of Account</i>	288.78	1,477.14	-953.40	4,890.00	-850.30	1,624.02	6,476.24
<i>Percent of Paid Invoices</i>	94	100	78	89	83	95	92
<i>Unpaid Invoices</i>	275.00	14.00	565.00	310.00	100.00	570.00	2,074.00