

**CONSOLIDATED MINUTES OF THE  
95TH ANNUAL MEETING OF THE SOUTH DAKOTA  
ACADEMY OF SCIENCE  
APRIL 9-10, 2010  
HOSTED BY BLACK HILLS STATE UNIVERSITY  
HOLIDAY INN CONVENTION CENTER  
SPEARFISH, SD**

**EXECUTIVE COUNCIL**

The Executive Council met at 11:00 am Friday 9 April 2010 for a final check of plans for the symposium and the meeting.

Reports

President Krisma DeWitt opened the executive committee meeting and noted that a quorum was present. The Secretary's report, Treasurer's report, Auditor's Report, and Proceedings Editor's Report were given by Donna Hazelwood, Pat Tille, Mark Gabel and Audrey Gabel, and Bob Tatina, respectively.

Proceedings Editor, Bob Tatina, noted that the library at USD no longer houses the Proceedings Collection. After contacting state and private university libraries in South Dakota by e-mail, he distributed copies which had been requested, and the extras were destroyed. Therefore, copies of back issues are no longer available. He plans to digitize the set, but because of the time involved in the process will look into alternatives including hiring students and investigating services to accomplish this. To resolve issues on page charges for printing abstracts for symposium presenters, Bob moved and Mike Barnes seconded that a waiver for page charges be implemented for printing in the Proceedings the abstract and titles for invited symposium speakers. The motion passed by voice vote.

On a related issue, Bob noted that the original estimate of the cost for page charges at the SDSU facility for color figures in printed Proceedings did not equal the exact cost. Because pages printed in black and white are copied on a black and white copier, pages with color had to be copied on a color printer and inserted by hand. The current costs for printing for reprints are \$15.00 for 50 reprints and the bid estimate for printing the 2010 proceedings at the SDSU facility are \$80.00 for 50 reprints. Bob discussed discouraging paper copies of the Proceedings and consensus was to provide electronic distribution via the website and printing paper copies for distribution only to libraries.

On the question of publishing abstracts in the Proceedings, the executive council was in consensus that for abstracts to be published, either a paper or poster must have been presented at the annual meeting. On the other hand, whole papers have been published in the Proceeding but have not been presented at the meeting.

## Old Business

President Krisma DeWitt extended a warm thank you to the local arrangements committee, Dave Bergman, John Dixson, Cynthia Anderson, graduate and honors students in Biology and BHSU for hosting the annual meeting, and to the Holiday Inn staff. She also thanked members of the executive board and symposium presenters and attendees.

Krisma brought everyone's attention to the status of the policy and procedures manual to be passed President-to-President. Apparently, the intended outcome has not occurred, and the process needs to be restarted. Bob mentioned that forwarding a handbook of procedures from the current local arrangements committee to the next committee would be useful.

Following up on collaboration with other scientific societies in South Dakota, Cindy Anderson visited with the Dakota Chapter of Fisheries. Mike Barnes indicated that increased awareness that the Proceedings is a viable publication outlet. He also mentioned that the best way to achieve collaboration is to have face-to-face meetings with members and leaders of other societies.

Krisma acknowledged the work of Neil Reese, webmaster of the SDAS website. She mentioned that the graphic arts project which originally was to be undertaken by a faculty member at MMC will not occur because the faculty member will be leaving MMC to pursue a graduate degree. Neil inquired about having a commercial company take-over the website design portion.

The collaboration among the Presidents of institutions of higher learning in South Dakota is currently in hiatus because one of the organizers, the President of MMC, has resigned his position.

From EBSCO host a royalty check for the Proceedings in the amount of \$28.61 has been issued, but because of late delivery the check was void. The check will be reissued and sent to in care of the Proceedings Editor, Bob.

## New Business

### *Fellows*

A slate of Fellows has been nominated with nominators in parenthesis including Maureen Diggins (Mike Wanous), H.L. Hutcheson (Gary Larson and Arvid Boe), Gary Earl (Duane Weisshaar), and Waldimar "Wally" Klawiter Jr. (Pat Tille). Mike Barnes moved and Bob Tatina seconded that the members nominated as Fellows be recommended to the membership at the business meeting. The motion passed.

### *Nominations*

Because last year the membership voted to increase the number of Members-at-Large from three to four for 2009-2011 terms, the executive council will propose to the membership increase from three to four for 2010-2012 terms. The Nominating committee, Miles and Mike Barnes will solicit nominations for Members-at-Large and for Second Vice President.

### *Resolutions*

Gary Larson will be in charge of resolutions to be presented at the business meeting.

### *The Role of the Academy in Science Fairs*

Kris mentioned that with the loss of the regional science fair at Timberlake, the number of regional science fairs in South Dakota has decreased from five to four. Apparently the role of the South Dakota Academy of Science in providing eight awards in the amount of \$25.00 each, for a total of \$200.00, to each of the regional science fairs is not currently being acknowledged. The question was raised concerning uniformity among standards for judging was raised. Pat Tille suggested that awards and certificates be sent to the teacher after the event and then the teacher would present the award. Cindy suggested that rubrics for judging awards be sent to the Executive Committee. Pat will solicit rubrics. She also has a list of the guidance councilors for each high school in SD. It was noted that the last Junior Academy was hosted by DSU. The question was raised about paying for the winner of each of the four regional science fairs to present at the Academy. The Science Fairs will be an item of discussion for the Fall Executive Council Meeting.

### *South Dakota Content Standards for Science*

A lively discussion on the topic noted that the statement is ambiguous. In the past the South Dakota Academy of Science has passed resolutions, but this has not been effective. Suggestions included making personal contact with representatives in sequential order of potential effectiveness: 1) face-to-face, 2) phone, and 3) email/letter.

Miles introduced a concern about registration fees for high school teachers who were giving presentations at the Annual Meeting. The outcome was to not charge the teachers in question to attend the meeting. Pat Tille expressed frustration with preregistration and either non-payment and the question of generating numbers for attendance at the banquet and lunch. Finally, Bob mentioned that faculty at SDSM&T requested to bring a class to attend a specific session. The Executive Council made an Executive Decision in agreement with this request.

## BUSINESS MEETING

Saturday 10 April 2010

President Krisma DeWitt introduced incoming President, Dave Bergman who gave the well received Presidential Address "It's Just a Theory: Science in the Pursuit of Truth."

Krisma opened the annual meeting. The Secretary's report and the Treasurer's report were given by Donna Hazelwood and Pat Tille, respectively. The Auditing Committee, Audrey Gabel and Mark Gabel, reported that everything was in order. The Proceedings Report was provided by Bob Tatina.

## Old Business

On behalf of the academy, Krisma offered thanks to Black Hills State University for hosting the annual meeting and to the local arrangements committee, Dave Bergman, Cynthia Anderson, and John Dickson, and to the Holiday Inn

staff for their support of the meeting, and members of the local arrangements committee and the symposium presenters.

Update on collaboration of state of South Dakota scientific organizations. Toward the goal of generating coordination among the science societies in South Dakota, Cynthia Anderson met with the South Dakota chapter of the American Fisheries Society during the business meeting and invited members from the society to present at the annual meeting of the SDAS. She encouraged the membership to act as an ambassador for the Academy and attend the annual meeting of science societies in South Dakota.

### New Business

The following individuals have been nominated as Fellows of the South Dakota Academy of Science:

Maureen Diggins, Augustana College, nominated by Mike Wanous  
H.L. Hutcheson, SDSU, nominated by Gary Larson and Arvid Boe  
Gary Earl, Augustana College, nominated by Duane Weisshaar  
Waldimar "Wally" Klawiter Jr, University of Sioux Falls, nominated by Pat Tille

Krisma recommended that all of the individuals nominated be elected as Fellows. Mike Wanous moved and Audrey Gabel seconded the motion. The motion passed by acclamation. Formal notification will be sent by incoming President Dave Bergman.

The fee structure for payment of registration fees for the annual meeting was discussed. Miles Koppang moved and Tim Mullican seconded a motion to allow inclusion of high school students, faculty and students from tribal schools, student guests, unless presenters, to be charged the student rate. A friendly amendment by Cynthia Anderson stipulated that all other requests be considered by the local arrangements committee. The motion passed by acclamation.

A concern about a resolution passed by the South Dakota joint legislature 2010 on Global Warming was discussed by Bob Tatina. The petition forwarding this resolution to the legislature included signatures of many SDAS members, but in the absence of knowledge or consent of the individuals so listed. He noted that it would be beneficial for members to read such proposed legislation and have more direct exposure to the legislators to help avoid passage of such frivolous measures. Suggestions were made to visit with local legislators face to face, send letters directly to legislators, make phone calls, and send e-mail messages. Bob noted that locating joint resolutions can be done by accessing the SD Legislature web site and clicking on joint resolutions.

Items for discussion fall 2010 Executive Council meeting 11:00 am Sat 11 Sept. Al's Oasis Oacoma, SD. Location of future meetings. Payment structure for high school students and high school teachers, students undergraduate, graduate, K-12, Website, SDAS presence on social networking sites such as Facebook and Twitter.

Krisma DeWitt pointed out that to allow for increased representation the number of member-at-large positions was increased from three to four for the

2009-2011 terms. The Executive Counsel proposes to increase the number of member-at-large positions from three to four for the 2010-2012 term. Bob Tatina and Mark Gabel moved to increase the number of member-at-large positions from three to four for the 2010-2012 term. The motion passed by acclamation.

The following slate was presented by the Nominating Committee:

**Second Vice President**

Chun Wu Mount Marty College

**Two year terms 2010-2012**

Uriel Buitrago Mount Marty College  
 Tim Mullican Dakota Wesleyan University  
 George Mwangi University of Sioux Falls  
 Jeff Palmer Dakota State University

**One year terms 2010-2011**

Audrey Gabel Black Hills State University  
 Tom Montoya SDSM&T

Pat Tille moved and Bob Tatina seconded acceptance of the slate of nominees. The motion passed by acclamation.

President Krisma DeWitt passed the gavel to incoming President Dave Bergman.

New Business

President Dave Bergmann announced the AAAS undergraduate poster award winners. They are:

**Undergraduate female awardee (underlined)**

Jensen, Ben, Marissa Kern, Blake Ridgeway, and Paul G. Eglund. 2010. "GFP Codon Optimization for Expression in *Streptococcus gordonii*." Augustana College.

**Undergraduate male awardee (underlined)**

Horter, Jamie, Jared Soundy, Patrick J. Ronan, Leah Callahan, and Kristi Tschetter. 2010. "Omega-3 Fatty Acids and Corticotropin Releasing Factor." Augustana College.

Discussion followed on the topic of inviting the award winners of the Science Fairs to present at the SDAS annual meeting.

Gary Larson presented the following **Resolutions of the South Dakota Academy of Science:** The South Dakota Academy of Science wishes to congratulate and thank David Bergman, Cynthia Anderson, and others on the Planning Committee at Black Hills State University for making the local arrangements that insured a successful 2010 meeting in Spearfish. Special recognition and thanks to the Spearfish Holiday Inn for excellent food, service, and accommodations for the meeting.

We thank Krisma DeWitt for her able leadership as our president over the past year, and thanks also to Bob Tatina for arranging the program for 2010 and

for his steadfast commitment and expertise as editor of the SDAS Proceedings. Thanks to David Bergman for his presidential address entitled "It's Just a Theory: Science in the Pursuit of Truth". We are grateful to Donna Hazelwood for her continued service as secretary and thanks also to Pat Tille for her service as treasurer; and we also thank Neil Reese for his ability and willingness to continue as our webmaster. The resolutions were passed by acclamation.

### Announcements

The Executive Council will meet 11:00 am Saturday 11 Sept. 2010 at Al's Oasis, Oacoma.

Forward announcements to Webmaster Neil Reese.

The 96th SDAS annual meeting will be hosted by DSU at Cedar Shore resort.

The 97th SDAS annual meeting will be hosted by USD.

*Respectfully submitted,  
Donna Hazelwood  
Secretary*

## SOUTH DAKOTA ACADEMY OF SCIENCE TREASURER'S REPORT

|   | <b>Deposits</b> |                |
|---|-----------------|----------------|
| <b>Beginning Statement 3-14-2009</b>      |                 | <b>7525.88</b> |
| Deposit SDAS Mtg/Memberships 2009         | 5320.00         |                |
| Science Fair Awards                       |                 | (775.00)       |
| SDAS Mtg (Aramark-NSU)                    |                 | (1958.34)      |
| Secretary of State                        |                 | (10.00)        |
| Speakers Annual Mtg                       |                 | (1500.00)      |
| SDAS Plaques                              |                 | (72.32)        |
| National Association Dues                 |                 | (50.00)        |
| Board Mtg Lunch (Al's Oasis)              |                 | (128.03)       |
| <b>Checking Account Balance 2-15-2010</b> |                 | <b>8352.19</b> |
| <b>Cash on Hand (SDAS Mtg-Cash Box)</b>   |                 | <b>300.00</b>  |
| SDAS 2010 Mtg Deposits to Date (4-6-2010) | 1060.00         |                |
| <b>Certificate of Deposit</b>             |                 | <b>8076.26</b> |
| Total assets                              |                 | \$17,788.45    |

*Respectfully Submitted  
Pat Tille  
SDAS Treasurer*

## SOUTH DAKOTA ACADEMY OF SCIENCE PROCEEDINGS EDITOR'S REPORT

*This is my report of the year March 31, 2009 to March 31, 2010.*

1. At and after last year's annual meeting, all members were given their 2009 Proceedings. Those that were not in attendance at the annual meeting were mailed a copy.
2. The following libraries were mailed a complimentary copy: AC, BHSU, DSU, DWU, MMC, NSU, OLC, SDSMT, SDSU, UND, UND, Am. Mus. Nat. Hist., U of WA and the Booth Fish Hatchery (Spearfish)
3. The following indexing/ abstracting services and institutions were mailed complimentary copies:
  - Chemical Abstract Services
  - AcadSci., Inc.
  - NISC USA (Fish)
  - Cambridge Scientific Abstracts
  - GeoRef Library
  - NISC CO (Wildlife)
  - Baywood Publishing (Anthropology)
  - Thompson Scientific (Biosis)
  - EBSCO Host (pdfs)
4. The following non-member institution purchased copies:
  - Linda Hall Library (Kansas City MO)
  - Curran and Assoc.
5. Because the library at USD no long had room to house extra copies of past issues of the Proceedings, a note was sent to all libraries in the state asking them if they could house these copies. Since there were no positive responses, I offered to send a complete set to each library and/or to send copies to complete their holdings of the Proceedings. Copies or sets were sent to DWU, USE, Oakwood Lakes Outdoor Laboratory, Fish Hatchery in Spearfish and BHSU.
6. I also hired a student to convert paper copies of back volumes to pdfs with the intent to have these uploaded to the Academy website. The 1995 issue has been converted with 53 additional volumes left. However, the cost, about \$150.00/volume, was higher than I anticipated, so I have put this project on hold.
7. For the 2009 Proceedings:
  - a. All members received pdfs of all article of the entire volume
  - b. No. of paper copies printed = 110
  - c. No. of full papers published = 13
  - d. No. of abstracts published = 62
  - e. No. of titles only published = 0
  - f. No. distributed to members = 69
  - g. No. distributed to libraries, abstracting services, etc.: 32
  - h. Electronic files of were provided to Neil Reese, Webmaster, for uploading to the SDAS website and to EBSCOhost to fulfill our contract with them.

8. First call for papers sent out early February; second call sent out 1 March.
9. 2010 Schedule produced and distributed
  - a. For the 2010 annual meeting:
    - i. No. of oral presentations = 59
    - ii. No. of posters = 46
10. Motions to bring to the Executive Committee:
  - a. Waiver of page charges for publishing abstracts and titles of invited symposium presenters. I feel that these individuals, some of whom have not been members should be rewarded for the service that they provide the Academy. The waiver would not apply to symposium presenters who choose to publish a full paper.
  - b. Electronic copy of the Proceedings shall mean pdfs sent by email and not CDs or other media that would have to be sent by USPS mail.
  - c. Does publishing require presenting? Over the two years that I have been editor I have allowed several full meritorious papers to be published even though their authors, who were members of the Academy, did not present their paper as a poster or orally. This year I have one abstract and possible two full papers, the authors of which have indicated that these will not be presented at the annual meeting.
11. The Proceedings account at SDSU has been closed and all monies transferred to the SDAS account at First National Bank in Mitchell.
12. 2009 Fiscal Report (for the FY 1 April 2009 to 31 March 2010)

|                         |                |
|-------------------------|----------------|
| Formatting              | 1461.00        |
| Printing                | 4734.52        |
| Digitizing Proceedings  | 146.25         |
| Misc. Printing          | 0.00           |
| Supplies, postage, etc. | 520.01         |
| Total expenses          | 7169.82        |
| Total Invoiced          | 5940.00        |
| Payments Received       | 5850.00        |
| Profit/(loss)           | (1319.82)      |
| <b>Balance 12/21/09</b> | <b>9832.91</b> |
| <b>Balance 4/04/10</b>  | <b>8513.09</b> |
| Proportion Paid         | 69/72          |

*Submitted by  
Robert Tatina  
Editor*

**SOUTH DAKOTA ACADEMY OF SCIENCE  
FELLOWS OF THE ACADEMY (1998-2011)**

Kenneth F. Higgins 1998  
Chuck Estee 1999  
No nominations 2000  
Carroll Hanten 2001  
Emil F. Knapp 2001  
No nominations 2002  
Clyde Brashier 2003  
Milton Hanson 2003  
S. Laetitia Kiltzer 2003  
Robert Looyenga 2003  
Arlen Viste 2003  
Everett White 2003  
Perry H. Rahn 2004  
Robert Stoner 2004  
No nominations 2005  
No nominations 2006  
No Nominations 2007  
No Nominations 2008  
No Nominations 2009  
Nominated 2010 for 2011  
Maureen Diggins 2011  
Gary Earle 2011  
H.L. Hutchinson 2011  
Waldimar “Wally” Klawiter Jr. 2011

## SOUTH DAKOTA ACADEMY OF SCIENCE 2010-2011 EXECUTIVE COMMITTEE

|                       |  |
|-----------------------|--|
| President             | Dave Bergmann, BHSU, Biology,<br>652-2420, DaveBergmann@bhsu.edu                                 |
| President-Elect       | Anthony Cole, DWU, Biology<br>995-2708, ancole@dwu.edu   |
| First Vice-President  | Gary Larson, SDSU Biology,<br>688-4552, Gary.Larson@sdstate.edu                                  |
| Second Vice-President | Chun Wu, MMC, Chemistry,<br>688-1381, cwu@mtmc.edu   |
| First Past President  | Krisma DeWitt, MMC Chemistry<br>668-1530, kdewitt@mtmc.edu                                       |
| Second Past President | Nels H. Troelstrup, Jr. SDSU, Biology and Microbiology,<br>688-5503, Nels.Troelstrup@sdstate.edu |
| Secretary             | Donna Hazelwood, DSU, Biology,<br>256-5187, donna.hazelwood@dsu.edu                              |
| Treasurer             | Patricia Tille, SDSU, Prog. Dir. Clinical Lab. Sci.,<br>605-688-6016, pat.tille@sdstate.edu      |
| Proceedings Editor    | Robert Tatina, DWU, Biology (retired)<br>996-7670, rotatina@dwu.edu                              |
| Publicity             | Andrew Detwiler, SDSM&T, IAS,<br>394-1995, Andrew.Detwiler@sdsmt.edu                             |
| Publicity             | James Sorenson, MMC, Biology,<br>668-1581, jsorenson@mtmc.edu                                    |
| Publicity             | Robert Tatina, DWU, Biology (retired)<br>996-7670, rotatina@dwu.edu                              |
| Webmaster             | Neil Reece. SDSU, Biology<br>688-4568, neil.reece@sdstate.edu                                    |

### *Members-at-Large*

|           |  |
|-----------|--|
| 2009-2011 | Arvid Boe, SDSU, Plant Science<br>688-4759, Arvid.Boe@sdstate.edu        |
| 2009-2011 | Miles Koppang, USD, Chemistry<br>677-5693, Miles.Koppang@usd.edu         |
| 2010-2011 | Audrey Gabel, BHSU,<br>642-6251, Audrey.Gabel@bhsu.edu                   |
| 2010-2011 | Thomas Montoya, SDSM&T, EE, CENG<br>394-2459, Thomas.Montoya@sdsmt.edu   |
| 2010-2012 | Uriel Buitrago-Suarez, MMC, Biology<br>668-1516, uriel.buitrago@mtmc.edu |
| 2010-2012 | Tim Mullican, DWU, biology<br>995-2715, timullic@dwu.edu                 |
| 2010-2012 | George Mwangi, USF, Chemistry<br>575-2069, George.mwangi@usiouxfalls.edu |
| 2010-2012 | Jeffrey Palmer, DSU, Mathematics<br>256-5190, Jeff.Palmer@dsu.edu        |