CONSOLIDATED MINUTES OF THE 93RD ANNUAL MEETING OF THE SOUTH DAKOTA ACADEMY OF SCIENCE HOSTED BY MOUNT MARTY COLLEGE AT CEDAR SHORE RESORT OACOMA, SD 5-6 APRIL 2008

The Executive Council met at 12:00 pm Friday 5 April 2008 for a final check of plans for the symposium and the meeting.

President Mike Wanous opened the executive committee meeting and noted that a quorum was present. He offered thanks to Steve Chipps, outgoing Proceedings Editor, secretary Terri Symens, outgoing Treasurer Kristel Bakker, incoming Proceedings Editor, Bob Tatina, and to incoming Treasurer, Pat Tille.

The secretary's report and treasurer's report were provided by Donna Hazelwood and Kristel Bakker respectively. Jim Sorenson moved and Gary Larson seconded acceptance of the reports; the motion carried by acclamation.

Nels Troelstrup suggested that forthcoming treasurer's reports be more detailed and maintained on Excel to allow for accessible digital format.

An update on the 2007 meeting revealed that 52 papers and 38 posters were given plus seven symposium papers. Concerns were raised that there may be an issue of non-payment by individuals who attended the symposium.

Proceedings Editor Bob Tatina gave the Proceedings report. All materials for the editorship of the Proceedings have been transferred from Terri Symens and Steve Chipps to Bob. Proceedings Editor, Bob, will review the abstracts. For submitted papers, the process of peer review will be handled as it was this past year with the modification that the authors will provide two reviewers who will review manuscripts and then forward reviews to the Proceedings Editor who will contact the appropriate associate editors. The Associate Editors are listed below. Finally, the Proceedings Account will continue to be maintained at SDSU. A total of 22 full papers were published in the 2007 Proceedings.

Associate Editor	**Location**	**Area**
Dave Bergmann	BHSU	Microbiology
Steve Chipps	SDSU	Wildlife
Andy Detwiler	SDSM&T	Atmospheric Science
Tom Gray	MTMC	Chemistry
Donna Hazelwood	DSU	Botany
Jeffrey Palmer	DSU	Mathematics/Statistics
Larry Stetler	SDSM&T	Geology/Paleontology
Fedora Sutton	SDSU	Molecular biology

Neil Reese, webmaster, reported that the 2006 Proceedings are in process to be posted to the SDAS website.

Mike Wanous proposed that the Executive Council bring to the business meeting the following motions: 1) add the positions of Proceedings Associate Editors; 2) require electronic submissions of manuscripts for publication in the Proceedings; 3) generate a check box on the 2009 registration form to allow the members to choose the method of dissemination of the 2008 Proceedings, hard copy or electronic access; 4) suggest that Bob Tatina be maintained as Editor of the Proceedings; 5) suggest the following slate of officers Treasurer, Pat Tille, second VP Anthony Cole, Members-at-Large (2008-2010), Jeffrey Palmer, Eric Likness and an additional candidate; 5) support the AAAS resolution on offering expertise to political leaders on issues involving scientific decisions; 6) support the celebration of the 150 year anniversary of the publication of *The Origin of Species* by Charles Darwin; 7) pay student helpers at the registration desk $100.00 plus transportation, room and board expenses; 8) award $600.00 to Terri Symens for her assistance on the Proceedings. The nominating committee will consist of Nels Troelstrup, Jr., Mike Wanous, and Donna Hazelwood.

With changes in the Treasurer position moving off DSU campus, Neil Reese moved and Jim Sorenson seconded that a second SDAS checkbook be maintained at DSU by secretary Donna Hazelwood.

The Executive Council reported that the President will send information to contact persons on each campus for dissemination. The goal is to raise the membership in the Academy.

For the AAAS Poster competition, the judges will be Dave Bergmann, Donna Hazelwood, and Chun Wu.

Discussion involved increasing the visibility of the SDAS in SD in the areas of science and technology by increasing visibility in Pierre during the legislative season. The current mechanism for communications from the Academy is to publish resolutions in the Proceedings, which are published one year after the resolution passed. Discussion included sending resolutions to the appropriate body and building partnerships with the legislature in terms of expertise available for appropriate issues.

Incoming President, Nels Troelstrup, gave a well-received, timely and thoughtful Presidential Address on "The Need for Field Biologists in a Technophilic World".

President Mike Wanous opened the business meeting Saturday 5 April by congratulating Charles Estes for being an SDAS member for 60 years. He also recognized outgoing Proceedings Editor Steve Chipps and his secretary, Terri Symens, outgoing Treasurer Kristel Bakker, incoming Proceedings Editor Bob Tatina, and incoming Treasurer Pat Tille.

Proceedings Editor, Bob Tatina, reported on the new instructions for authors of full papers and reminded authors of the need for pre-review by two colleagues prior to submission to the Editor. The Guide to Authors is available on the Academy Website.

Mark and Audrey Gabel audited the Treasurer's report and reported that the Academy is solvent and the books are in order.

The following motions from the Executive Council were presented by President Wanous: 1) send all manuscripts to Proceedings Editor Bob Tatina; 2) all manuscript submission is by electronic format; 3) members have the choice of method of dissemination, paper copy or electronic access, and 4) at the present, no additional charge for a paper copy. All motions passed.

Elections for officers were held with the following individuals elected by acclimation:

Proceedings Editor	Bob Tatina
2nd Vice President	Anthony Cole
Treasurer	Pat Tille
Member-at-Large 2008-10	Cynthia Anderson
	Eric Likness
	Jeffrey Palmer

The following resolution by Bob Tatina passed by acclimation: provide thanks in the form of financial remuneration to Terri Symens, $600.00, Di Drake $100.00, and Nancy Presuhn $100.00. Neil Reese also provided a resolution to thank Mount Marty for hosting the meeting, and to the Organizing Committee Jim Sorenson, Krisma Dewitt, and Chun Wu, and to Bob Tatina for timely publication of the 2007 Proceedings.

To facilitate the poster sessions, the Academy, under the auspices of Mike Wanous, has purchased two boxes of twelve easels plus poster boards. Nels Troelstrup and Anthony Cole have each volunteered to be in charge of one box plus accompanying poster boards for the 2008-2009 year.

The gavel was passed from outgoing President, Mike Wanous to Incoming President Nels Troelstrup, Jr. A commemorative plaque recognizing Mike for his contributions as President was awarded.

Nels brought forward a resolution from the NAAS to all 50 state Academies of Science dated 15 Feb 2008 to establish state level coalitions to develop a mechanism to be available to provide advice to state legislature. This is an attempt to reach out and provide cooperative support. Following lively discussion, Fedora Sutton moved and Jim Sorenson seconded a motion that the SDAS accept the resolution and the Executive Council draft a plan for implementation.

The resolution in support of commemorating the 150th anniversary of the publication of Charles Darwin's *The Origin of Species* was accepted. Nels suggested that the 2009 hosts, NSU, be given the opportunity to sponsor a Symposium on this topic.

The 2008 SDAS Poster Competition Awardees were as follows:

AAAS male

The Transcription Factor RegG is Required for Expression from the Veillonella atypica-induced Amylase Gene of Streptococcus gordonii. **Bart Johnson** and Paul G. Egland, Dept. of Biology, Augustana College.

AAAS female

Characterizing CAPC in Breast and Prostate Cancer. **Elizabeth M. Davis**[1], Lindsey D. Rieck[2], and Kristi A. Egland[2], Dept. of Biology, [1]Augustana College, [2]Sanford Research/USD.

Male honorable mention

Longterm effects of a 1988 wildfire on stream ecosystems in Glacier National Park, Montana. **Chad Backsen** and Craig Spencer, Biology Department. Augustana College.

Effects of NMDA Receptor Antagonists on Renal Function in Rats. **Benjamin Nelson**[1], Laura Mandler[1], and Karen A. Munger[2], [1]Dept. of Biology, Augustana College, [2]Avera Research Institute; Sanford USD School of Medicine; and Veterans Administration Research Service.

Regulation of Parasympathetic Innervation on Uniquitin-Proteosome System Mediated Proteolysis in Mouse Hearts. **Heath Eggleston, Marius Vulcan, Mark J. Ranek,** and Xuejun Wang, Biology Dept., DWU, School of Medicine, Division of Basic Biomedical Sciences, USD.

Female honorable mention

Aeroallergenic Fungi of the Black Hills of South Dakota and Wyoming. **Polly A. Hall,** Shane Ziegenbein, Cynthia Anderson. CCBR/WestCore, BHSU.

Examining Protein Kinase D Expression Patterns and the Effect of its Activation on Cell Junction Organization in Breast Cancer Cells. **Kate Ahlers**[1], Katrina Dunham[2], Namita Vinayek[2], Kristina Wattier[2], Greg Gerrish[2], Subhash C. Chauhan[2], Meena Jaggi[2]. [1]Dept. of Biology, Augustana College, [2]Basic Biomedical Science Division, Sanford Research/USD.

Title in program: Awardee is a graduate student at the MS level.

Inhibition of *Escherichia coli*-Induced Diarrhea in Pigs Using Extracts from South Dakotan-Native Plants. Kristen Rietsema and R. Neil Reese. Department of Biology & Microbiology, SDSU.

Title of presentation:

The Antibiotic Capacity And Cytotoxicology Of South Dakota Native Plants. Kristen Rietsema, Radhey Kaushek, and R. Neil Reese. Department of Biology & Microbiology, SDSU.

Bart Johnson and Elizabeth Davis will each receive a one year student membership in the AAAS.

Upcoming SDAS meetings are:

3-4 April 2009 host NSU, contact to be determined
9-10 April 2010 host BHSU
8-9 April 2011 host DSU
2012 host USD
2013 host Augustana College

Several items for consideration at the fall meeting of the Executive Committee were discussed. 1) the 2009 meeting hosted by NSU; 2) nomination of individuals for Fellow; 3) recruitment of new members; 4) the locations of future meetings, 5) drafting a plan for implementation of the AAAS resolution; 6) exposure and publicity of the academy, 7) commemoration of the 150th Anniversary of the publication of The Origin of Species, and 8) forwarding resolutions to Pierre.

To Recap: the SDAS 2008 Annual Meeting hosted by Mount Marty College at Cedar Shore resort inlcluded a Symposium on "The Other Lives of RNA: RNAi and Small RNAs" and included eight presentations followed by the Keynote Address "Designer Nanomedicine: RNA Therapeutics" by Dr. Scott Harper. On Saturday, 52 contributed papers and 38 posters were presented. A total of 133 members attended the 2008 Annual Meeting.

Respectfully submitted,
Donna Hazelwood, DSU
SDAS Secretary

SOUTH DAKOTA ACADEMY OF SCIENCE 2008-2009 EXECUTIVE COMMITTEE

President	Nels Troelstrup, Jr. South Dakota State University, Biology and Microbiology
	688-5503, Nels.Troelstrup@sdstate.edu
President-Elect	Krisma DeWitt, Mount Marty College, Chemistry
	668-1530, kdewitt@mtmc.edu
First Vice-President	Dave Bergmann, Black hills State University, Biology
	652-2420, DaveBergmann@bhsu.edu
Second Vice-President	Anthony Cole, Dakota Wesleyan University
	Biology, 995-2713, ancole@dwu.edu
Secretary	Donna Hazelwood, Dakota State University, Biology
	256-5187, Donna.Hazelwood@dsu.edu
Treasurer	Pat Tille, University of Sioux Falls, Chemistry
Proceedings Editor	Robert Tatina, Dakota Wesleyan University, Biology
	996-7670, rotatina@dwu.edu
First Past President	Michael Wanous, Augustana College, Biology
	274-4712, mike-wanous@augie.edu
Second Past President	James Sorenson, Mount Marty College, Biology
	668-1581, jsorenson@mtmc.edu
Webmaster	Neil Reese, South Dakota State University, Biology
	688-4568, neil.reese@sdstate.edu
Members-at-Large	
2007-2009	Mike Barnes, South Dakota Game, Fish and Parks
	642-6920, mike.barnes@state.sd.us
2007-2009	Gary Larson, South Dakota State University, Biology and Microbiology
	688-6141, gary.larson@sdstate.edu

2007-2009	Chun Wu, Mount Marty College, Chemistry 668-1381, cwu@mtmc.edu
2008-2010	Cynthia Anderson, Black Hills State University 652-6854, CynthiaAnderson@bhsu.edu
2008-2010	Erik Likness, Northern State University, Biology 626-2427, etliknes@northern.edu
2008-2010	Jeffrey Palmer, Dakota State University, Mathematics 256-5190, Jeffrey.Palmer@dsu.edu

SOUTH DAKOTA ACADEMY OF SCIENCE TREASURER'S REPORT 4-APRIL-2008

Balance as of 25-October-2005	**$9962.68**
Balance as of 14-October-2006	**$9211.21**
Balance as of 13-April-2007	**$8150.73**
Balance as of 19-Sept-2007	**$9358.91**
Debits since 19-Sept-2007:	
Cedar Shores -fall ex. Board mtg.	95.00
Science Fair '08	800.00
SDSU Union (07 meeting)	390.00
Cedar Shores room rent F07	36.50
DSU print shop	24.00
USD (Pierre poster session)	100.00
Augustana Nat. Sci (easels, etc.)	1,496.88
NAAS (membership)	63.50
Balance as of 4-April-2008	**$6353.03**
Certificate of Deposit: -renewed 2/25/08 -next renewal date 11/25/08 -Dacotah Bank, SF	$7,810.67

Respectfully,
Kristel K. Bakker
SDAS Treasurer

SOUTH DAKOTA ACADEMY OF SCIENCE
AUGUST 19, 2008 - PREPARED BY DI DRAKE
PROCEEDINGS DISBURSEMENTS / RECEIVABLES

	2007	2006	2005	1996-2004	Total
Lay Out Formatting	1,708.00	2,024.00	2,281.25	13,662.85	19,676.10
Publication	3,362.34	2,751.85	3,135.86	29,660.51	38,910.56
Reprints	1,497.19	219.40	1,010.94	7,989.35	10,716.88
Conversion to PDF File	175.00	175.00	351.50	2,079.75	2,781.25
Miscellaneous Printing	4.95	34.11	23.10	367.64	429.80
Supplies,Phone,Postage	112.53	34.68	70.95	1,543.53	1,761.69
TOTAL EXPENSES	6,860.01	5,239.04	6,873.60	55,303.63	74,276.28
TOTAL INVOICED	8,610.00	7,640.00	9,105.00	57,843.00	83,198.00
Profit / Loss to date	1,749.99	2,400.96	2,231.40	2,539.37	**8,921.72**

*Estimate

Cash Balance in SDSU-SD Academy of Science Proceedings Account

	2007	2006	2005	1996-2004	Total
Total Paid Expenses	(6,860.01)	(5,239.04)	(6,873.60)	(55,303.63)	(74,276.28)
Paid by SDAS-Treasurer				4,747.13	4,747.13
Payments Received	6,810.00	5,790.00	8,885.00	54,509.00	75,994.00
Paid to SDAS-Treasurer				(240.00)	(240.00)
Balance of SDSU Account	(50.01)	550.96	2,011.40	3,712.50	**6,224.85**
Percent of Paid Invoices	0.79	0.76	0.98	0.94	0.91
Unpaid Invoices	1,800.00	1,850.00	220.00	3,334.00	7,204.00