

MINUTES OF THE MEETINGS OF THE INDIANA ACADEMY OF SCIENCE 2005

COMBINED MEETING OF
THE EXECUTIVE COMMITTEE
AND THE COUNCIL
St. Mary-of-the-Woods College
22 April 2005

EXECUTIVE COMMITTEE MEETING
2:00 pm

Attending.—Uwe Hansen, Ed Frazier, Jeff Hughes, Clare Chatot, Nils Johansen, Nelson Shaffer.

Hansen welcomed the Executive Committee. The purpose of the meeting was to briefly summarize the thinking behind some of the agenda items at the Council meeting.

Technical initiatives.—Hansen is very interested in re-vitalizing the Sections and also pulling the Section Chairs closer into the operations of the Academy. The individual sections will have available to them a small amount of money to add to the section activities at the Fall meeting. A suggested item would be a Section Distinguished Speaker, but it would be up to the individual sections to decide on this.

Section additions and name changes.—Hansen will propose the establishment of a Mathematics Section at the Council meeting and also propose to change the name of the Geology/Geography Section to the Earth Science Section to closer represent the many faces of the section: traditional geology and geography, but also astronomy and meteorology as two examples.

Hansen will announce a meeting of Section Chairs and/or their representatives for a brief meeting after the Council meeting to address the student award for presentations at the Fall meeting and the mechanics of picking the overall winners.

These items were approved by consensus and will be included at the Council meeting.

The Executive Committee Meeting was adjourned at 2:13 pm.

COUNCIL MEETING
2:30 PM

Attending.—Uwe J. Hansen (President), Clare Chatot (President-Elect), Edward Frazier (Treasurer), Nils I. Johansen (Secretary), Nelson Shaffer (Executive Director), Damian Schmelz (Natural Resources Commission), Marion T. Jackson (Past President), Holly Oster (Librarian), Daryl Karns (Ecology Section Chair), Jeff Hughes (Research Grants Chair), Jodie Ellis (Entomology Section Chair), Kimberly Lyle-Ippolito (Cell Biology Section Chair), Blake Janutolo (Botany Section Chair), Joyce V. Cadwallader (Saint Mary-of-the-Woods College), Marcia Moore (Website Manager), Jim Berry (Editor of the *Proceedings*), Mike Foos (Nominations Committee), Gary Moughler (Entomology Section Vice-chair), Liz Brown (Mathematics Section Chair), Robert F. Dale (Past Secretary), David Daniell (Invitations and Programs Committee), Rich Kjonaas (AAAS Representative and Chemistry Section Chair), William R. Gommel (Historian/Necrologist).

Welcome.—Hansen welcomed the council members at 2:30 pm.

Introductions.—The council members introduced themselves and their affiliations within the Academy.

Additions to the agenda.—Hansen asked for additions; there were none.

Approval of the agenda.—Hansen asked for approval of the agenda: unanimous approval.

Approval of minutes.—Nils Johansen passed out the minutes of the Council Meeting of 28 October 2004 at Hanover College for approval: unanimous approval.

INDIVIDUAL REPORTS

Treasurer.—Edward Frazier handed out the 2004 year end report and the January–April income and expense reports.

Executive Director.—Nelson Shaffer handed out an information letter about the Academy. He also said the Academy would

be represented at the Earth Day celebration in Indianapolis this weekend (23–24 April 2005). He also commented on the recent dues increase saying that there had not been any significant impact on the total membership in terms of numbers.

Editor of the *Proceedings*.—Jim Berry handed out a summary of the overall *Proceedings* activity over the last five years. Compared to last year, 9 manuscripts had been received by April 2005, compared to 4 the previous year over the same time span. He encouraged the sections to submit papers for publication.

Newsletter Editor.—Uwe Hansen (Don Ruch was not present) summarized the present status of the Newsletter and encouraged the members to submit newsworthy items to the Newsletter editor.

Secretary.—Nils Johansen had no additional items (the minutes had been distributed and approved earlier).

President-Elect.—Clare Chatot will organize and run the student award program at the upcoming Fall meeting.

President.—Uwe Hansen made a few general comments. He asked for a motion to approve a new Mathematics Section, Michael Foos made the motion, Oster seconded the motion, and there was unanimous approval. Liz Brown was appointed interim Mathematics Section Chair. Bill Gommel reminded the newsletter editor to include this (the new Mathematics Section and its interim chair) in the upcoming newsletter and encourage attendance at the Fall meeting. The Executive Committee's proposal to re-name the Geology/Geography section as the Earth Science Section was unanimously approved.

COMMITTEE REPORTS

Foundation.—No report, but Ed Frazier had earlier talked about the interactions with the Foundation.

Research grants.—Jeff Hughes summarized the status of the applications at this time. The committee will meet in Evansville next week to finalize the awards. Peter Scott is a new member of the committee.

Programs.—David Daniell said the 2006 meetings will be at Ball State; exact dates will be forthcoming.

Local arrangements.—Joyce Cadwallader and Marion Jackson said there will be a 12

May meeting of the Local Arrangements Committee. The call for papers will go in the Newsletter. Because of the early time of the Fall meeting (6–7 October), the abstracts will not be mailed out before the meeting, but will be available to be picked up at the meeting by attendees. After the meeting the remainder of the membership will get the abstract mailed to them.

Daryl Karns said that in connection with the Fall meeting, there would be a special section on the Heritage of the Wabash River. (An e-mail was sent out 25 April 2005 outlining the ideas for the special session). Thursday evening he plans to have a reception/dinner with a speaker; and on Friday morning there will be papers followed by Friday afternoon field trips. The details will be worked out.

Nominations.—Michael Foos reminded the Council about upcoming elections and the need for nominees. He specifically brought to the attention that among others, the Treasurer is up for election and also the annual President-Elect position. All the positions will be listed on the web-site, and he stressed the need for nominees for the positions.

Publications.—Nelson Shaffer gave an oral report for Bill McKnight summarizing the current activities.

Finance.—Edward Frazier (Ed Squires was not present) summarized the activities of the Finance Committee.

Resolutions.—Nelson Shaffer reminded the local organizing committee of the resolutions normally presented at Fall meetings and the need to have them submitted to him before the Fall meeting.

Library and archivist.—Holly Oster gave an oral report on the status of the library.

Amendments.—No report.

Youth activities.—Zeck (not present) submitted a written report.

Awards.—Clare Chatot reminded the Council to encourage members to nominate deserving members for Fellow of the Academy.

Biodiversity.—No report.

Junior academy.—No report.

Talent search.—No report.

Web.—Marcia Moore submitted a written report. She highlighted the "Registry of Experts" efforts and also—with Uwe Hansen—the work on section news on the web-site.

Speaker of the Year.—No report.

Natural resources.—Damian Schmelz submitted a written report.

AAAS representative.—Rich Kjonaas submitted a written report. Discussion followed on the current status of teaching of evolution vs. creationism or intelligent design. Should the Academy again raise the issue in Indiana as was done at the 1999 meeting? Damian Schmelz reminded the Council to be aware of the quality of “scholarship” on the part of the creation science community. Also, this debate should include the Junior Academy. No votes were taken.

Historian/Necrologist.—Bill Gommel reported the passing of two members: Dr. Herbert C. Brown (the recipient of the 1979 Nobel Prize in Chemistry) and Dr. William J. Rowland.

Meeting site for 2006.—See “Programs” above.

Unfinished business.—None.

New business.—None.

The meeting was adjourned at 4:22 PM.

SECTION CHAIR MEETING 5:00 PM

This was an information meeting. President Hansen addressed the Section Chairs, Section representatives and other interested members of the Council where he again expressed his vision for Section re-activation. He stated that the sections could apply for funding for the specific section activities from a \$2000 fund in the operating budget, or about \$200 for a given section. Some Section Chairs indicated that they would be interested in using some of these funds for the Fall meeting. Hansen would be notified over the summer.

The meeting was adjourned at 5:30 PM.

Respectfully submitted,
Nils I. Johansen, P.E.
Secretary

MEETING OF THE EXECUTIVE COMMITTEE AND THE COUNCIL

St. Mary-of-the-Woods College
St. Mary-of-the-Woods, Indiana
6 October 2005

EXECUTIVE COMMITTEE MEETING

Welcome.—The meeting opened at 1:37 PM with President Uwe Hansen presiding.

Organizational conference items.—Uwe

Hansen expressed thanks to Marion Jackson and Joyve Cadwallader for the local arrangements and for the abstract booklet that is available. Nelson Shaffer and Edward Frazier will make sure that the attendees will get one copy each and that non-attending members will get one mailed to them.

Technical initiatives.—President Hansen reported that three sections have started this project in their sections.

Wabash River symposium.—Daryl Karns gave some organizational information. About 70 people are expected to attend.

Other satellite organizational meetings.—None.

Items for the Council meeting.—President Hansen will encourage all sections to find their “movers and shakers” and will also mention this to Section Chairs. It is vital for the Academy that the sections are active. This is where the “action is” in the Academy.

Other items.—We need to identify future Fellows.

Nelson Shaffer indicated that Academy members should be aware as to “how to talk to the media.” There was discussion regarding this topic as a future workshop. The annual Budget meeting will be at Butler University at 1 PM (Indianapolis time) on 10 December.

Adjournment.—The meeting adjourned at 1:55 PM.

COUNCIL MEETING

Attending.—Uwe Hansen (President), Clare Chatot (President-Elect), Edward Frazier (Treasurer), Nils I. Johansen (Secretary), Donald Ruch (Past-President), Nelson Shaffer (Executive Director), Marion Jackson (Program Co-Chair), Joyce Cadwallader (Program Co-Chair), Frank Guthrie (Academy Foundation), Jim Berry (Editor of the *Proceedings*), Jeff Marshall (Youth Activities), Patty Zeck (Youth Activities), David Daniell (Programs and Invitations Chair), Melissa Mitchell (Science Education Chair), Dan Webster (Past-President), Holly Oster (Librarian), Blake Janutolo (Botany Section Chair), Kimberly Lyle-Ippolito (Cell Biology Section Chair), Marcia Moore (Web-site), Michael Foos (Elections Committee Chair), Richard Kjonaas (AAAS Representative), John Shutt (Speaker of the Year Committee), and William R. Gommel (Historian/Necrologist).

Welcome.—President Uwe Hansen presid-

ed and welcomed the guests, and all attendees introduced themselves. The meeting opened at 2:06 PM.

Additions to the agenda.—Uwe Hansen expressed thanks to the people who worked hard on getting the program together and expressed appreciation to each.

Approval of agenda.—Uwe Hansen moved, Ruch seconded, to approve the printed agenda. There was unanimous approval.

Approval of Minutes from Spring 2005 meeting.—Nils Johansen handed out the minutes for approval. Ruch so moved, Chatot seconded. The minutes were approved.

INDIVIDUAL REPORTS

Treasurer.—Edward Frazier handed out a summary of our financial status and went through the report line by line. No action was taken.

Executive Director.—Nelson Shaffer handed out membership data. He also suggested the need to increase corporate membership. No action was taken.

Editor of the *Proceedings*.—Jim Berry handed out his report. Biographies of distinguished IAS scientists will be a new feature in the *Proceedings*. It will start with the next issue.

Newsletter Editor.—Don Ruch said the Newsletter is “doing fine.” He reminded members that the deadline for the last issue in 2005 is 15 November, and he encouraged members to submit articles to “let people know what the IAS is doing.”

Secretary.—Nils Johansen had no additional items to his earlier report (above).

President-Elect.—Clare Chatot said that she will run the Student Presentation Competition. She will meet with the Section Chairs at lunch regarding this; and, also, she will coordinate the Technical Initiatives Program for next year and also the Abstract submission. She announced that the Budget Committee meeting would be held at Butler University 10 December at 1 PM (Indianapolis time) and encouraged submissions from within the Academy for consideration to be included in next year’s budget.

President.—Uwe Hansen reiterated what he had said in the Executive Committee meeting. We have the “technical initiatives.” Also, we should recognize “movers and shakers” of

the Academy at various institutions of higher learning within the State. Section Chairs could take this on as a Section project, thus getting a historical, biographical bird’s eye view of what has happened to and within the Academy over the years.

COMMITTEE REPORTS

Foundation.—Frank Guthrie gave a few comments on his written report.

Research grants.—Nelson Shaffer commented on the written report.

Programs.—David Daniell reported that the 2006 meetings will be at Ball State and that the 2007 meetings probably at the University of Indianapolis. There was a comment from the floor about a future meeting at IU or Purdue. The answer was that these meetings are usually money-losing propositions for the Academy; however, presence at the “flagship” institutions of the state every 10 years or so might be worth looking into in terms of IAS exposure.

Local arrangements.—Joyce Cadwallader and Marion Jackson gave “nuts and bolts” information about the upcoming general meetings.

Nominations.—Michael Foos reported the results of the elections. They will be announced at the general membership meeting on the next day. The new President-Elect is John Schutt, Treasurer is Ed Frazier, Foundation representative is Frank Guthrie, and the member of the Research Grants Committee is Sandra Brake. A change in By-laws to reflect current election policies was referred to New Business.

Publications.—Edward Frazier presented a brief report.

Finance.—No report.

Resolutions.—Nelson Shaffer presented the resolution that will be read during the general membership meeting thanking St. Mary-of-the-Woods College for hosting the meeting.

Library and archivist.—Holly Oster passed out her report. She also mentioned that she needs member biographies and also pictures of some Past-Presidents.

Amendments.—There were no amendments at this time.

Youth activities.—Patty Zeck made a report. She and Jeff Marshall are co-chairs. She shared several stories about the successes of

the program. She is open to suggestions on future needs. Don Ruch added his personal thanks to Patty and Jeff Marshall for their work.

Awards.—Clare Chatot reported that there were no Fellow nominations this year. She charged the Section Chairs with finding and nominating worthy members. Don Ruch will also put a reminder in the newsletter.

Biodiversity.—Don Ruch reported that, as part of the Wabash River Symposium, there would be a 2–4 PM mini bio-blitz with 32 participants. Daryl Karns also informed the members about the symposium.

Junior Academy.—This was discussed under Youth Activities (above).

Talent search.—This was discussed Youth Activities (above).

Web-site.—Marcia Moore gave an oral report. President Hansen and Don Ruch expressed their appreciation to Marcia for putting the program on the web-site.

Speaker of the Year.—John Schutt announced that Michael J. Lannoo would be the luncheon speaker and the title would be “Insights Into Causes of Malformed Frogs.” Also, if you want the Speaker of the Year to come to your institution, contact John Schutt.

Natural resources.—A written report was passed out.

AAAS.—Richard Kjonas passed out a report.

Historian.—Bill Gommel reported the passing of the following members: Herbert C. Brown, Alice R. Copess, William J. Rowland, Joseph R. Siefker, and Helene Starcs. He will also announce this at the annual lunch meeting.

Unfinished business.—Micheal Foos’ suggestion on format for nominations and possible by-law changes in this regard will be forwarded to Bob Waltz to be discussed in his committee.

New business.—Patty Zeck indicated the need for IAS to be involved with the 2006 Science Fair. She will take it up at the December budget meeting.

A question was raised about an IAS registry of expertise and also preservation of IAS heritage. No decisions were made. Uwe Hansen and others will look into this.

Adjournment.—The meeting adjourned at 4:20 PM.

ANNUAL BUSINESS MEETING
St. Mary-of-the-Woods College
St. Mary-of-the-Woods, Indiana
6 October 2005

President Uwe Hansen presided. John Schutt introduced the Speaker of the Year, Dr. Michael J. Lannoo, who gave the talk “Insight Into Causes of Malformed Frogs.” It was an excellent talk on the multi-faceted assault of people on an ecosystem and the results as shown in and by frogs. Both chemicals and parasites can cause malformed frogs; and, furthermore, both of these vectors can be traced to human activities. President Hansen read the resolution thanking St. Mary-of-the-Woods College for hosting the meeting and the Local Arrangements Committee for a job well done.

Micheal Foos reported the election results. The President-Elect is John Schutt, the Treasurer is Ed Frazier, the member of the Academy Foundation is Frank Guthrie, and the member of the Research Grants Committee is Sandra Brake.

Bill Gommel read the names of members who have passed since last year, and they were honored with a moment of silence.

President Hansen thanked the members of the Academy for the support he had received as President, and he especially thanked his predecessor, Don Ruch. He also charged the Section Chairs to discover people in their sections who have made an impact on IAS. As his last act as President, he passed the gavel to incoming President, Clare Chatot.

Respectfully submitted,
Nils I. Johansen, P.E.
Secretary

BUDGET MEETING
Butler University
10 December 2005

Attending.—Clare Chatot (President-Elect), Edward Frazier (Treasurer), Nils I. Johansen (Secretary), Donald Ruch (Past-President), Nelson Shaffer (Executive Director), Frank Guthrie (Academy Foundation), Jeff Marshall (Youth Activities), Patty Zeck (Youth Activities), David Daniell (Programs and Invitations Committee), Jim Bandoli (Research Grants), Bill McKnight (Publications Committee).

President-Elect Clare Chatot presided. Edward Frazier went through the 2005 and 2006

budgets. About \$6000 is needed from the Foundation to balance the 2005 budget. The 2006 budget is expected to come out even. The 2006 budget as proposed by Frazier, and with minor changes, was unanimously approved.

The meeting was adjourned at 2:12 PM.

EXECUTIVE COMMITTEE MEETING

Butler University

10 December 2005

Attending.—Clare Chatot, Don Ruch, Jim Bandoli, Nelson Shaffer, Edward Frazier, and Nils Johansen.

Edward Frazier moved, seconded by Ruch, unanimous approval, that the Treasurer be authorized to sign checks to: Jim Berry, \$4000 as Editor of the *Proceedings*, Bill McKnight, \$4000 as Chair of Publications, and to Marcia Moore, \$2000 as Webmaster.

Two informational issues were discussed: suggestions for publication inventory reduction, and the assembly of an IAS committee to look into the Intelligent Design/Evolution controversy. No conclusions were reached.

Respectfully submitted,
Nils I. Johansen, P.E.
Secretary

INDIANA ACADEMY OF SCIENCE 2005 Year End Financial Report

	Balance 1-Jan-05	Revenues	Expenses	Balance 31-Dec-05
OPERATING FUND				
Dues		22,565.00		
Interest		860.80		
Contributions		170.00		
Spring Meeting		455.00	500.11	
Annual Meeting		8,626.00	8,989.68	
Transfer from IAS Foundation		7,000.00		
Misc. Income		771.50		
Officer's Expenses			4,000.00	
Operating Expenses			8,616.88	
Financial Expenses			3,202.78	
Newsletter Expenses			2,280.80	
Library Operations			0.00	
Committee Expenses			0.00	
Speaker of the Year			700.00	
AAAS Representative			875.00	
Web Site Development			2,074.97	
Youth Activities			5,766.77	
Operating Fund Total	9,771.06	40,448.30	37,006.99	13,212.37
RESTRICTED FUNDS				
Proceedings	15,616.24	10,141.37	15,966.48	9,791.13
Publications	19,520.96	6,005.05	9,826.71	15,699.30
* Research Grants	16,027.13	72,481.27	72,544.91	15,963.49
Indiana Biological Survey	(515.58)	0.00	0.00	(515.58)
Lilly Library	6,578.44	0.00	0.00	6,578.44
Welch Fund	8,706.01	368.49	400.00	8,674.50
Life Members Fund	4,795.25	1,500.00	0.00	6,295.25
Past Presidents Fund	9,178.39	0.00	400.00	8,778.39
Total Restricted Funds	79,906.84	90,496.18	99,138.10	71,264.92
Prepaid Dues	4,375.00			5,130.00
TOTAL FUNDS	94,052.90	130,944.48	136,145.09	89,607.29
FUNDS ON DEPOSIT				
Checking Account	3,544.02	135,854.44	136,300.94	3,097.52
Money Market Savings	79,328.69	80,700.80	85,068.40	74,961.09
Cert. of Deposit	11,180.19	368.49	0.00	11,548.68
TOTAL FUNDS DEPOSITED	94,052.90	216,923.73	221,369.34	89,607.29
* Provided 27 senior member grants and 18 high school grants.				
ACADEMY FOUNDATION FUNDS				
John S. Wright Fund Account	6,443,101.13			6,502,663.84
Academy Fund Account	242,405.60			242,560.75
Invested Income Account	384,885.45			495,283.84
TOTAL FOUNDATION FUNDS	7,070,392.18			7,240,508.43
Foundation Funded Used For:				
General Fund	7,000.00			
Proceedings	9,248.87			
Publications	0.00			
Research Grants	63,990.19			
Total	80,239.06			


Edward L. Frazier
Treasurer

INSTRUCTIONS TO AUTHORS

(revised July 2005)

General information.—Manuscripts and all correspondence should be sent to the Editor. To be eligible for publication in the *Proceedings*, at least one author must be a member of the Academy. Papers that have been presented at an Academy meeting may be given preference for publication. Submission of a manuscript to the Editor implies that it has not been sent to another publication, nor has it been published elsewhere. If it is accepted for publication in the *Proceedings*, it may not be republished without the written consent of the Academy.

All manuscripts are evaluated by referees. Submit three copies of the manuscript. Figures in manuscripts for review may be submitted as photocopies, and they should be approximately the size that they will be printed in the *Proceedings*.

After the manuscript has been accepted, the author will be asked to submit the manuscript as a paper copy and on a computer disc in a widely-used word processing program. Indicate clearly on the computer disc the **word processing program** and the **type of computer** (Mac or PC).

Galley proofs will be sent to the primary author for approval and correction.

Voucher specimens and permits: Voucher specimens of species used in scientific research should be deposited in a recognized scientific institution. Authors must indicate that the collection of specimens, especially of threatened or endangered species, was authorized by the appropriate governmental organizations. All type specimens must be deposited in a recognized museum collection.

Style.—Do not use right or full justification. Also, use a non-proportional font (e.g., Courier, but not Times Roman).

Title page.—The title page should include (1) the title in capital letters, (2) each author's name and address, (3) the running head (see below), and (4) the complete name, address, and telephone number of the author with whom proofs and correspondence should be exchanged, a FAX number and electronic mail address if available.

Abstract.—All manuscripts have an abstract, which should summarize the significant facts in the manuscript. The "ABSTRACT" heading in capital letters should be placed at the beginning of the first paragraph set off by a period. Use complete sentences, and limit the abstract to one paragraph and 250 words.

Keywords.—Give 3–5 appropriate keywords following the abstract.

Text.—Double-space text, tables, legends, etc. throughout. Three categories of headings are used. The first category (METHODS, RESULTS, etc.) is typed in capitals, centered, and on a separate line. The second (lower) category of heading, in bold type, begins a paragraph with an indent and is separated from the text by a period and a dash. (This paragraph begins with an example of this heading.) The third heading category may or may not begin a paragraph, is italicized and followed by a colon. (The paragraph below is an example.) Use only the metric system unless quoting text or referencing collection data.

Citation of references in the text: Cite only papers already published or in press. Include within parentheses the surname of the author followed by the date of publication. A comma separates multiple citations by the same author(s) and a semicolon separates citations by different authors, e.g., (Smith 1990), (Jones 1988; Smith 1993), (Smith 1986, 1987; Smith & Jones 1989; Jones et al. 1990).

Literature cited section.—Use the following style, and include the full unabbreviated journal title. Repeat the name for multiple references by the same author. Note that book titles have the first letter of each word capitalized.

Walter, J. & B. Hallet. 1979. Geometry of former subglacial water channels and cavities. *Journal of Glaciology* 23:335–346.

Walter, J. 1992. The significance and complexity of communication in moths. Pp. 25–66. *In* *Insect Communications: Mechanisms and Ecological Significance*. (P.N. Work & J.S. Rivers, eds.). Princeton University Press, Princeton, New Jersey.

Footnotes.—Footnotes are permitted only on the first printed page to indicate current address or other information concerning the author. These are placed together on a separate page at the end of the manuscript. Tables and figures may not have footnotes.

Running head.—The author's surname(s) and an abbreviated title should be typed all in capital letters and must not exceed 60 characters and spaces. The running head should be placed near the top of the title page.

Tables.—These should be typed double-spaced, one table to a page and numbered consecutively. Most tables contain only three horizontal lines (see recent issues for examples). Do not use vertical lines or shading. Include all pertinent information in the table legend (no footnotes).

Illustrations.—All art work must be camera-ready (mounted and labeled) for reproduction. Figures should be arranged so that they fit (vertically and horizontally) the printed journal page, either one column or two columns, with a minimum of wasted space. When reductions are to be made by the printer, pay particular attention to width of lines and size of lettering in line drawings. Multiple photos assembled into a single plate should be mounted with only a minimum of space separating them. In the case of multiple illustrations mounted together, each illustration must be numbered Fig. 1, Fig. 2, etc.) rather than given letter (A.B, etc.) designations. The name(s) of author(s), and an indication of top edge, and whether the illustration should be one or two columns wide, should be written on the back of the illustration. The overall dimensions should be no more than 11 inches (28 cm) × 14 inches (36 cm). Larger drawings present greater difficulty in shipping and greater risk of damage for which the *Proceedings* assumes no responsibility. In manuscripts for review, photocopies are acceptable, and should be reduced to the exact measurements that the author prefers in the final publication. Make notations in the text margins to indicate the preferred position of illustrations in the printed text. Color plates can be printed; but the author must assume the full cost, currently about \$600 per color plate.

Legends for illustrations should be placed together on the same page(s) and separate from the illustrations. Each plate must have only one legend, as indicated below:

Figures 1–4.—Right chelicerae of species of *Centruroides* from Timbuktu. 1. Dorsal view; 2. Prolateral view of movable finger; 3. *Centruroides* holotype male; 4. *Centruroides* male. Scale = 1.0 mm.

Page charges and reprints.—There are no page charges for members of the Academy. Corrections in proof pages must be restricted to printer's errors only; all other alterations will be charged to the author (currently \$3 per line).

Reprints are available only from Allen Press and should be ordered (with payment) when the author receives the proof pages. Allen Press will not accept reprint orders after the paper is published.

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