

## MINUTES OF THE MEETINGS OF THE INDIANA ACADEMY OF SCIENCE 2007

### MEETING OF THE EXECUTIVE COMMITTEE

University of Indianapolis  
13 April 2007

Those attending were: John Schutt, President; Clare Chatot, Past-President; Edward Frazier, Treasurer; Nils I. Johansen, President-Elect; Nelson Shaffer, Executive Director; Marcia Moore, Website Manager; Jim Berry, Editor of the *Proceedings*; John Langdon, Meeting host; Uwe J. Hansen, Past-President. John Schutt opened the meeting at 1:30 pm.

**Budget items:** Ed Frazier provided an overview of the 2006 Financial Report and comments on the current (2007) budget. Clare Chatot and Uwe Hansen reminded the committee of the Past-President's Fund that can be used to support section activities. Ed Frazier moved, Clare Chatot seconded, that the 3rd and 4th quarter payments for 2007 to the Chair of the Publications Committee be paid out this quarter. All approved.

**Individual reports:** Nils Johansen passed out the Fall 2006 minutes of the Executive and Council meetings. The minutes were approved with correction of a typographical error. Jim Berry commented on the status of the *Proceedings*. Uwe Hansen commented on the need to get information on to the website (and in the Newsletter) about IAS business in a timely manner.

The Executive Meeting adjourned at 2:06 pm.

Respectfully submitted:  
Nils I. Johansen, P.E.  
President-Elect and Interim Secretary

### MEETING OF THE COUNCIL

University of Indianapolis  
13 April 2007

Those attending were: John Schutt, President; Clare Chatot, Past-President; Edward Frazier, Treasurer; Nils I. Johansen, President-Elect; Nelson Shaffer, Executive Director; Marcia Moore, Website Manager; Jim Berry, Editor of the *Proceedings*; Don Ruch, Newsletter Editor; John Langdon, Meeting host; David Daniell,

Programs and Invitations Committee; Uwe J. Hansen, Past-President; William R. Gommel, Historian/Necrologist; Dan Webster, Past-President; and Howard McLean, Science Talent Search Committee.

**Welcome.**—John Schutt called the Council meeting to order at 2:38 pm. The council members introduced themselves and their affiliations within the Academy.

Minutes of the Fall 2006 IAS Council meeting were distributed and approved with corrections of typographical errors. Uwe Hansen moved, Ed Frazier seconded, to approve the distributed agenda. All approved.

### INDIVIDUAL REPORTS

**Treasurer's report.**—Ed Frazier distributed the 2006 year-end report and the 2007 budget with first quarter income and expenditures. The IAS operating budget is in the black. The 2006 year-end report was internally audited. In response to a comment in regard to the 2007 budget, it was stated that payment for support of a TV production to television station WFYI has been made. Uwe Hansen expressed thanks to the Ed Frazier for his long-time commitment to the Academy as treasurer. There was a round of applause.

**Executive Director.**—Nelson Shaffer distributed his report and made several comments. He mentioned that membership renewals are coming in at a good rate. He expressed concerns about the lack of corporate support and the need for an increase in this area. Overall, he encouraged the membership to contact him or the president with any ideas for increase in all categories of membership. A brief period of discussion followed on possibilities to increase membership and also attendance at Spring and Fall meetings. Jim Berry moved, with Ed Frazier's second, to investigate the possibility of moving Spring meeting to Butler University in connection with Butler's annual Undergraduate Research Conference. All approved. A question about Spring meeting field trips was then raised. Jim Berry moved, with Marcia Moore's second, to contact past presi-

dents for suggestions here. All approved. Uwe Hansen raised the idea of bringing high school students to the Fall meeting as a way of showing “hands-on” science to the young people.

**Proceedings Editor.**—Jim Berry introduced several motions. Berry moved, with Nelson Shaffer’s second, that all back issues of the *Proceedings* would be priced at \$15 per issue. All approved. Berry moved, with Clare Chatot’s second, that a “Short Communications” be added to the *Proceedings*. Such short papers, a couple of pages in length, would be peer-reviewed by at least one person. All approved. Berry moved, with Uwe Hansen’s second, that he (Berry) would be authorized to investigate using Allen Press’ electronic processing of manuscripts for the *Proceedings*. The estimated cost would be about \$1000 per year (\$500 for set up and \$20 per paper). All approved. Berry moved, with Langdon’s second, that all papers (since 2000) be put on-line so that anybody could read them. All approved.

**Newsletter Editor.**—Don Ruch gave an oral report. He encouraged the officers and committee chairs to use the Newsletter for reporting current events in their respective committees or offices.

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

**President.**—John Schutt had no report.

## COMMITTEE REPORTS

**Academy Foundation.**—The written report was distributed (Frank Guthrie was absent). The Council commended the Foundation chair and trustees for their management of the Foundation and reminded the council that budget suggestions for 2008 should be presented at the December 2007 budget meeting.

**Research grants.**—A summary report was distributed (Jim Bandoli was absent). The Committee was having a meeting in Terre Haute the following day. A suggestion was raised that Nils Johansen contact Jim Bandoli to investigate the possibility of increases in the amounts of award and report back to the Council.

**Program and invitations.**—David Daniell reported that the Fall 2007 meeting at the campus of the University of Indianapolis is on track for October 25–26. He also said that the 2008 meeting dates at the University of Evansville have not been firmed up yet. He will also investigate the possibility of a 2010 meeting at Purdue University.

**Local arrangements.**—John Langdon wished us welcome today and in October.

**Nominations and elections.**—No report. Don Ruch pointed out that a nomination form was included in the last Newsletter.

**Publications.**—No report.

**Finance.**—The memo of approval of the audit was enclosed with the budget, discussed earlier.

**Youth activities.**—No report.

**Library.**—No report. There were comments on the current status by Nelson Schaffer.

**Amendments.**—No report.

**Awards.**—Clare Chatot will send out nomination forms. They will also be available at the web site.

**Biodiversity and natural areas.**—Don Ruch mentioned that several workshops are in the planning stage.

**Junior Academy.**—No report.

**Science Talent Search.**—Howard McLean reported on the proposals submitted and the good quality of the proposals.

**Website.**—Marcia Moore mentioned that the site is being moved from the Butler University server to a non-university site. No problems are anticipated. Forms for the Fall meeting (papers, abstracts, etc.) will be made available on the web by summer for timely submissions.

**Speaker of the Year.**—Uwe Hansen reminded the Council that “Speaker of the Year” speakers would be available for additional presentations.

**Natural resources.**—No report.

**AAAS representative.**—No report.

**Archivist.**—No report.

**Historian/necrologist.**—Bill Gommel will give a report at the Fall meeting. He also requested that Academy members send obituaries published in local newspapers to him.

## OTHER BUSINESS

**Local arrangements.**—John Langdon had no additional comments.

**Unfinished business.**—None.

**New business.**—John Langdon raised the issue of how we might include publications from young (high-school) people in Academy publications. No conclusions or recommendations were made.

**Adjournment.**—The meeting was adjourned at 5:07 pm.

Respectfully submitted:

Nils I. Johansen, P.E.

President-Elect and Interim Secretary

## MEETING OF THE COUNCIL

University of Indianapolis  
25 October 2007

President John Schutt called the meeting to order at 2:50 pm. A list of agenda items was distributed, and after name corrections were made (Patty Zeck and Ed Squiers) the agenda was approved. The minutes of the 25 April 2007 meeting were approved unanimously. Those attending were: John Schutt, President; Clare Chatot, Immediate Past-President, Edward Frazier, Treasurer; Nils I. Johansen, President-Elect; Heather A. Bruns, Secretary; Nelson Shaffer, Executive Director; Frank Guthrie, Foundation; Jim Berry, Editor of the *Proceedings*; Don Ruch, Newsletter editor; John Langdon, Host; Dave Daniell, Program and Invitations Committee; Uwe J. Hansen, Past-President; William R. Gommel, Historian/Necrologist; Dan Webster, Past-President; Howard McLean, Science Talent Search; Michael Foos, Nominations Committee; Ed Squiers, Past-President; Jim Bandoli, Grants Committee; Anika Williams, Librarian/Archivist; Bill McKnight, Publications Committee; Eric Knox, Plant Systematics & Biodiversity; Patty Zeck, Youth Activities Committee; Jennifer Metzler, Youth Activities Committee; Paul Rothrock, President-Elect; R. Brent Summers, AAAS representative.

A resolution to send an official “thank you” for to University of Indianapolis was approved (John Schutt moved, Ed Frasier seconded, unanimous approval).

## INDIVIDUAL REPORTS

**President.**—John Schutt had nothing additional to report.

**President-Elect:** Nils Johansen asked that section chairs present at the meeting pick up papers for student presentation evaluations from him today and announced that he would distribute evaluations to the other section chairs on Friday.

**Secretary.**—Heather Bruns presented a request from Steve Pawson (Project Co-ordinator BUGS Bibliography, School of Biological Sciences, University of Canterbury, New Zealand) to make the *Proceedings* publication (Ricker, W.E. 1950: Some evolutionary trends in Plecoptera. *Proceedings of the Indiana Academy of Science* 59:197–209) freely available via their online database. This request was approved by the Council.

**Treasurer.**—Ed Frazier distributed the IAS account summary for 1 January 2007 to 15 October 2007. The IAS operating budget is in the black.

**Executive Director.**—Nelson Shaffer distributed his report and made several comments. Membership in the IAS has increased in all categories. He acknowledged the Academy Foundation and their efforts for outreach programs. Nelson also announced the premier of “The Natural Heritage of Indiana” for Friday evening 10/26/2007 and stated that the traveling display will be at the premier. John Schutt thanked Nelson for his work traveling with the display and efforts to get information on IAS out to the community.

Nelson inquired about connections in the business community to foster corporate sponsorship. In response, Uwe Hansen mentioned that the IAS should try to cooperate with other organizations such as the AAPT in order to increase exposure and attendance. John Schutt suggested that he and past presidents meet together to share contacts and to make sure there is follow-up with interested contacts. John Langdon suggested that abstract registration and membership are disjointed and perhaps emphasizing their linkage would help boost membership.

**Proceedings Editor.**—Jim Berry reported that the papers published in the *Proceedings* would soon be available on the web-site. The Council approved a \$1000 honorarium for Ken Prestwich at Holy Cross College for preparing all of the papers from 2000 to 2007 as PDF files to be placed on the website. Jim Berry announced that he had attended a seminar in Kansas at our publisher, Allen Press, that was very informative.

## COMMITTEE REPORTS

**Academy Foundation.**—Frank Guthrie distributed a report and explained/summarized the investment funds. Only income from the John Wright Fund can be used for IAS research purposes. Diversifications have produced increases, funds now worth more than originally started. Total asset value is approximately \$8,500,000, up from approximately \$6,000,000 just a couple of years ago. The next Merrill Lynch advisor meeting will be 11/19/2007. Uwe Hansen asked if the Foundation decides where the money is placed or if Merrill Lynch makes those decisions. Frank Guthrie reported that he and the other trustees make those decisions. He receives a monthly

statement and summarizes it for the trustees. Frank Guthrie and others (Bill McKnight) are quite pleased with the Merrill Lynch advisors.

**Research grants.**—Jim Bandoli distributed and summarized a report on the numbers of Senior and Junior proposal requests and proposals funded. Uwe Hansen inquired about success rate and award distribution. Jim Bandoli commented that the decision is that good proposals are awarded full amounts rather than equally distribute monies to all submissions. There was discussion following Bandoli's report about how to increase the number of Junior grant submissions. John Langdon commented that if there is more acknowledgment to the schools, there might be more participation in submitting grants by high school students. Patty Zeck commented that involving high school principals would have a positive impact. John Schutt requested that Jim Bandoli compose a letter of information about the IAS grant opportunities and send it to high school principals in Indiana and develop an e-mail list of high school principals. We should also advertise in the HASTI newsletter. Patty Zeck also mentioned that a November deadline is very early for "first time" research students and may contribute to the low submission rate of proposals by high school students. Nelson Shaffer inquired about the possibility of home-schoolers being allowed to submit proposals. It was also suggested that we make an announcement at the science fairs and make connections with ACS and Science Olympiad.

**Awards.**—Clare Chatot reported that no nominations have been received.

**Biodiversity and Natural Areas.**—Don Ruch had no information to report.

**Budget.**—Nils Johansen stated that budget requests need to be submitted by December 1 to be considered for discussion at the budget meeting which is set for Saturday, December 12 at Butler University.

**Finance.**—Ed Squiers had no information to report.

**Librarian.**—Anika Williams introduced herself and provided a report giving an update of the collections and archives. Bill McKnight reported that former IAS librarian Holly Oster is very ill. A motion to approve Anika to be librarian/archivist was put forth by Ed Frasier and unanimously approved. Nelson Shaffer requested that a note of thanks be sent to Doug Conrads and acknowledge him publicly.

**Local arrangements.**—John Langdon stated that the Dean of Arts and Sciences at the University of Indianapolis will be greeting the IAS. The President and Provost will not be available.

**Nominations and elections.**—Michael Foos reported that the elections had been conducted and that the results were: Paul Rothrock – President-elect for 2008; Stanley Burden – Academy Foundation; Pamela Connerly – Research Grants committee.

**Programs and invitations.**—Dave Daniell summarized plans and efforts to organize the Fall 2008 meeting. The University of Evansville is the tentative location, and Dale Edwards is the contact person, but no dates have been set. The search for the 2009 location is still ongoing. Bill Knight suggested that the meeting should be at Indiana University or Purdue University at least once every 20 years because it boosts our membership. Discussion followed concerning the cost of meetings held at IU and PU versus the benefit.

**Publications.**—Bill McKnight stated that he has retired from teaching, but his contact information remains the same. The IAS has received the reprint of *Plants of the Chicago Region* with modifications from the original edition. Copies are now available. The Exotic Species brochure has been finalized and printed. A manuscript from Paul Rothrock has been received, and Bill McKnight is editing/revising it and hopes for next fall to have it ready for sale. Additionally, McKnight reported that he is working on his own manuscript on mosses. Bill Allen has asked for permission to re-use plates from the *Plants for the Chicago Region* for his own book. McKnight feels this is not in our own best interest. Questions were raised about charging him for the use of the plates. It was agreed that it is best to deny his request to use the plates rather than charge Allen for use of the plates. McKnight also reported that we have no foreign sales because they are not cost effective. Lastly, McKnight inquired about why we increased the price of the *Proceedings* to \$15, but are placing them online. He suggests that we reduce the number of *Proceedings* that are printed. Jim Berry stated that some *Proceedings* were purchased in this past year and that we are printing approximately 50 extra copies per issue. Ed Squiers suggested that they be placed online but make it accessible only by member password. John Schutt requested that Bill McKnight, Jim Berry and Ed Squiers discuss this and re-visit the

discussion in the spring and bring a motion at that time.

**Newsletter editor.**—Don Ruch reported that the newsletter is going well, but would like to have more information to include in the newsletter. He requested that general articles of interest for the IAS be brought to his attention, and he could include the article. He also requested information from committees and any pictures (particularly from the annual meeting) that were available.

**Speaker of the Year.**—Uwe Hansen reported that no one has been suggested for Speaker of the Year for next year.

**Youth activities.**—Co-Chairs Patty Zeck and Jennifer Metzler reported on the IAS Talent Search and Indiana Junior Academy of Science. They commented that there is overlap between grant recipients and junior presenters at the annual meeting. The 23 students receiving awards did a total of 69 presentations and won a total of 78 awards.

**High school teacher fellow.**—The Selection Committee reported a need to replace Dave Ober. Clare Chatot suggested the replacement be a University faculty member.

**AAAS representative.**—Brent Summer provided a report summarizing that the two student state representatives from Indiana to the AJAS meeting were Ethan Sperry and Jonathan Bell. They both performed well at the student research poster sessions. Additionally, Brent Summer reported that the NAAS is looking for ways to make state academies more successful.

**Natural resources.**—Damian Schmelz was unable to attend the meeting, but provided a report which was summarized by Nelson Shaffer. A suggestion was made by Dan Webster that we have someone shadow Damian, since he has

failing health. Don Ruch offered to be a replacement if and when the time comes. It was recommended that John Schutt have a discussion with Damian Schmelz to see what his wishes are to continue in this position. Frank Guthrie suggested that DNR should also be contacted due to possible issues with their own codes/laws.

**Representative to NCSE.**—Jim Bandoli reported that he sent an email to the National Center for Science Education generic mailbox informing them that our statement on evolution is posted on the website.

**Archivist.**—Anika Williams recommended that the new conservator (to be hired at the Indiana State Museum) look at our collection and recommend preservation. Ed Squiers suggested that the elder statesmen go through the collection to help in identifications. Uwe Hansen requested that Anika go through the biographies and pictures of the past-presidents and see what information is missing and request that those people provide the missing information. Nelson Shaffer once again requested something nice be done for Holly Oster. There was a request to put a nice story about Holly in the newsletter in addition to a thank-you gift.

**Historian/necrologist.**—William Gommel requested resumes/biographies from all who are members of IAS. He also announced the names of members that have passed away: Charlotte M. Boener (President 1989); Robert F. Bozarth; John A. Ricketts (Fellow 1967); Gerald J. Shea; and Harry G. Day (President 1962).

The meeting was adjourned at 5:09 pm.

Respectfully submitted:  
Heather A. Bruns,  
Secretary

**INDIANA ACADEMY OF SCIENCE  
2007 Year End Financial Report**

	Balance 1-Jan-07	Revenues	Expenses	Balance 31-Dec-07
<b>OPERATING FUND</b>				
Dues		19,935.00		
Interest		1,848.64		
Misc. Income		120.00		
Spring Meeting		180.00	178.75	
Annual Meeting		7,765.00	6,929.29	
Officer's Expenses			4,000.00	
Operating Expenses			5,308.77	
Financial Expenses			1,339.94	
Newsletter Expenses			2,013.82	
Speaker of the Year			700.00	
AAAS Representative			1,000.00	
Web Site Development			2,000.00	
Youth Activities			729.00	
Operating Fund Total	22,791.47	29,848.64	24,199.57	28,440.54
<b>RESTRICTED FUNDS</b>				
Proceedings	13,525.24	23,709.98	22,386.95	14,848.27
Publications	11,823.90	11,746.98	12,828.67	10,742.21
* Research Grants	15,213.49	77,876.37	79,840.37	13,249.49
Lilly Library	6,578.44	0.00	0.00	6,578.44
Welch Fund	8,864.47	0.00	500.00	8,364.47
Life Members Fund	8,795.25	1,000.00	0.00	9,795.25
Past Presidents Fund	8,578.39	1,000.00		9,578.39
Special Project-Nat. Heritage		20,000.00	20,000.00	
Total Restricted Funds	73,379.18	135,333.33	135,555.99	73,156.52
Prepaid Dues	5,395.00	5,430.00	5,395.00	5,430.00
<b>TOTAL FUNDS</b>	<b>101,565.65</b>	<b>165,181.97</b>	<b>159,755.56</b>	<b>107,027.06</b>
<b>FUNDS ON DEPOSIT</b>				
Checking Account	3,053.59	161,838.48	160,080.56	4,811.51
Money Market Savings	86,773.41	100,259.42	97,015.00	90,017.83
Cert. of Deposit	11,738.65	459.07	0.00	12,197.72
<b>TOTAL FUNDS DEPOSITED</b>	<b>101,565.65</b>	<b>262,556.97</b>	<b>257,095.56</b>	<b>107,027.06</b>
* Provided 29 senior member grants and 24 high school grants.				
<b>ACADEMY FOUNDATION FUNDS</b>				
John S. Wright Fund Account	4,722,360.16			3,513,136.15
PIA Account	2,291,000.00			4,758,510.35
Academy Fund Account	247,246.03			256,565.66
Invested Income Account	597,376.59			652,938.19
<b>TOTAL FOUNDATION FUNDS</b>	<b>7,857,982.78</b>			<b>9,181,150.35</b>
<b>Foundation Funded Used For:</b>				
Proceedings	14,486.98			
Research Grants	69,490.97			
Natural Heritage Project	20,000.00			
<b>Total</b>	<b>103,977.95</b>			

*Edward L. Frazier*  
Edward L. Frazier  
Treasurer

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# INSTRUCTIONS TO AUTHORS

(revised May 2007)

**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. There are two categories of papers: regular feature articles (usually longer than three pages) and short communications (three pages or less). 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 disk in a widely-used word processing program. Indicate clearly in the computer disk 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 threatened or endangered species, was authorized by the appropriate governmental organization. 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, 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) x 14 inches (36 cm). Larger drawing 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. 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) from the author receives the proof pages.