

AMERICAN SOCIETY OF ZOOLOGISTS

A Society of Integrative and Comparative Biology
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ASZ NEWS

letter

Spring 1995

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1994 ASZ Annual Meeting is a Success

The American Society of Zoologists' (ASZ) 1994 Annual Meeting was held January 4-8 of this year at the Adam's Mark Hotel in St. Louis. The meeting was highly successful with more than 850 attendees taking advantage of the wide variety of symposia, workshops and educational programs offered as well as the contributed paper and poster sessions. The meeting also enabled attendees to network, share experiences and learn more about exciting developments that have taken place over the past year and to discuss new research findings. In addition, attendees were able to visit the 25 exhibitors throughout the meeting.

Symposia included: "Invertebrate Feeding Biodynamics"; "Phylogenies and Comparative Biology Stage II: Testing Hypothesis"; "The Biology, Ecology, and Physiology of Zebra Mussels"; "The State of Experimental Ecology: Questions, Levels and Approaches"; "Molecular Approaches to Zoology and Evolution"; "Historical Patterns of Developmental Integration"; "Parasitic Effects on Host Hormones and Behavior"; "Risk Sensitivity in Behavior"; "Environmental Endocrine Disrupters"; "Development and Evolution of Animal Body Plans"; and "The Cutting Edge: Biology of Wound Healing and Regeneration."

ASZ was highly honored with a special keynote video presentation: "Animal Voices: Just Emotion, or Windows on the Mind?" presented by past ASZ President, Dr. Peter Marler, University of California, Davis. Although we were sorry that Dr. Marler was unable to attend the Annual

Meeting, his presentation was delivered by videotape from his office and was extremely well-received.

St. Louis provided attendees with numerous activities including its world-class zoo, elegant theaters, scenic tours and restaurants.

As the Annual Meeting was nearing the end, attendees were able to relax and socialize with their peers and colleagues with an End-of-Meeting Party which took place at the St. Louis Zoo's "Living World" Exhibit.

In addition, a new division, the Division of Neurobiology was announced, with David Prior as its first chair.

We look forward to our next Annual Meeting which will take place December 26-30, 1995 at the Sheraton Washington Hotel in Washington, D.C. Watch your mail for further information regarding this Annual Meeting.

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Message From the President

Michael G. Hadfield

I hope those of you who did not attend our Annual Meeting in St. Louis in January saw the coverage in *Science* (20 Jan. 1995 pp. 330-331). The article aptly captured both the scientific excitement of the meeting and the clear demonstration of leadership within the ranks of ASZ in nearly all approaches to modern biological research. The excellent symposia covered a diversity of biological endeavors and the poster and contributed paper sessions were filled with significant new research results presented by biologists who spanned the ranks from graduate students to senior professors. As in the past, most of the symposia will be published in *The American Zoologist* and elsewhere. The Society has contracted with Wiley-Liss to publish the Symposium on Molecular Approaches in Zoology and Evolution.

I believe that our society has reached a major turning point in its history, one that finds us financially strong and growing in recognition as a focus of critical modern biological research and training. Your opinions and criticisms of the Society, as expressed in surveys and questionnaires over the last 12 months, are being used to guide us in selecting meeting times and places, the emphases of our meetings and the character of our publications. Consideration of a change in the Society's name emerged from oft-repeated criticisms heard by your officers over the last three to four years. I informed assembled members at the Annual ASZ Business Meeting in St. Louis that nothing about our structure or activities is sacrosanct; it's all up for discussion and change as the membership directs. And changes will be made.

A major challenge still before us is to rebuild our membership to levels of at least the late 1980s. If the decline in members over the last seven years was due to a mistaken view of our image, our temporary descent into near bankruptcy, or displeasure over meeting contents, times or places, then we are clearly in the process of eliminating all those bases for complaint. For the next two years, we must meet in late December because of commitments made prior to 1990. It is our current plan that, after the 1996 meeting, we will not meet during the last week of December, nor will we meet in the most costly, large-city convention hotels. With those commitments to you, I challenge you, every ASZ member,

to bring at least one new member in the Society during 1995.

How can you convince colleagues and students to join the American Society of Zoologists?

1. Point out to them that there are few, if any, societies that offer as much to graduate students and postdoctoral fellows as ASZ, including lower membership costs (with the journal), reduced registration fees at the Annual Meeting, support for travel and resident costs at the meeting and an opportunity to present a contributed research paper on the same platform as leaders in their field.

2. The Society provides to all members our journal, *The American Zoologist*, twice-annual newsletters filled with timely and interesting news of colleagues and happenings in biology and a useful membership list with names, addresses, phone numbers and E-mail locators for all members.

3. In 1996, all members will receive, free of charge, the significant new book *Molecular Zoology: Strategies and Protocols*. We are also working toward an agreement with Wiley-Liss so that all ASZ members may receive a second journal, the new *Integrating Biology: Issues, News and Reviews* that Wiley plans to initiate in 1996. We also are negotiating to co-sponsor with the Society for Experimental Biology a new electronic journal.

4. The ASZ job-placement service will be revitalized this year and we are exploring the possibility of initiating a grants-in-aid of research program for graduate-student ASZ members within the next couple of years. Given all of these benefits, it's really not hard to convince people to invest \$96 per year (graduate students, \$35; postdocs \$80) in this dynamic association. I sincerely hope you will make the effort to double the size of the American Society of Zoologists in 1995.

Please feel free to contact me if you have any ideas, questions or concerns.

Message From the Secretary

Susan E. Peters

Before we all spread to the far corners of the world for the summer, I wanted to remind you to keep in touch. This newsletter is your vehicle for communicating with the rest of your colleagues. I would much rather receive interesting items about what research you are doing this summer or some new computer software or service that is now available, than the typical blurbs I get from Trout Unlimited, etc., which have little relevance to us. Note that the new ad hoc Conservation Committee, chaired by Fraser Shilling, is soliciting input about your environmental concerns (see article on page 7). Anyone, particularly those with experience dealing with policy making or with politics, is asked to respond and provide input for the Committee.

Any information you have about on-line services or bulletin boards, etc. should be sent to me or to Bob Full (see ASZ On-line article below) and we will see that it gets into the next newsletter. I would like to start a regular column in the newsletter that describes new hardware, software, bulletin boards or other computer-related stuff. For instance, if you've found a statistical program that is particularly good for some application or a new CD with really good exercises for an introductory zoology class, etc., please write up a brief description and send it to me.

Hope everyone has a fun and productive summer!

ASZ On-line

Robert Full

ASZ now offers a variety of Internet services for its members and the general scientific community. A World Wide Web (WWW) site has been developed at the University of California, Berkeley. The site offers information about the Society, information about future events, announcements from past meetings, an electronic bulletin board and an electronic mail directory of society members.

The World Wide Web is the fastest growing Internet service. "Browsers" are programs that allow users with Internet connections to easily peruse the information that has been made available on the WWW. Currently, the most popular World Wide Web browser is Netscape. Netscape is available for UNIX, Macintosh and Windows platforms through anonymous ftp at: [ftp.netscape.com](ftp://ftp.netscape.com)

The Location (URL) of the ASZ Web site is:
<http://ASZ.berkeley.edu/ASZ/ASZ.html>

In addition to the World Wide Web site, an ASZ mailing list has been organized. This is a public list created to disseminate information of interest to ASZ members. The address of the list is: ASZ-L@cmsa.berkeley.edu

To subscribe to the list, send the message "subscribe ASZ-L <first name> <last name>" via electronic mail to the list maintainer: listserv@cmsa.berkeley.edu

Keep watch for additional Internet services in the future.

For those who have not yet connected to the Internet, you should consult your computer services departments or other knowledgeable sources for information about the software and connections you will need to access the Internet for World Wide Web. The guru of our communications systems is Bob Full, University of California, Berkeley. He can answer questions or refer you to helpful sources. Contact him at rjfull@garnet.berkeley.edu

Message From the Treasurer

Mary Beth Saffo

As outgoing Treasurer Kathy Packard reported in St. Louis, ASZ is now in a relatively strong financial position, thanks to her hard work and to the contributions of all ASZ members. I am very grateful to Kathy for her dedicated service — in addition to the benefits of her work to the ASZ as a whole, her work promises to make my term a lot easier than was hers!

Our challenge is now to maintain the financial health of ASZ as we develop several exciting new initiatives designed to position our Society as the leading, innovative promoter of comparative and integrative biology.

On that note, I call your attention to a key source of income to the Society: membership dues. I strongly encourage all of you to heed Mike Hadfield's challenge for each of you to bring at least one new member into ASZ in 1995. Increased membership will invigorate the Society by not only increasing the array of biologists in our midst, but also by increasing our financial ability to support new projects and initiatives.

I also wish to clarify two financial matters, which (gathering from my E-mail) have been an apparent source of confusion in recent months:

Dues. Dues have been reduced to \$96 per year for regular members. However, these dues apply *only* to new members and to those renewing members *who pay their dues promptly*, e.g. by early January. For those members who do not or did

not pay by January, we have instituted a "late-dues" category for \$110/year, to cover the costs of extra mailings for dues reminders. I appreciate that many members may not enjoy paying a late-dues charge, but if it is any comfort to any of you I had to pay the late-dues charge this year myself! Late-dues charges are common among many professional societies besides the ASZ and seem to me more fair than spreading the extra mailing costs among *all* the members.

Waiver of registration fees to symposium speakers. Because of the recent financial difficulties of the ASZ, policies regarding waiver of registration fees to symposium speakers have been in considerable flux. The issue has also, therefore, been a source of confusion to symposium organizers and participants alike. I hope the following information will clarify our current policy.

Starting with symposia for the Washington, D.C., meeting, ASZ will guarantee waiver of registration fees for speakers in those symposia *which have been submitted by the organizer to private or governmental agencies for outside funding*. Budgets for these grant proposals will then list ASZ registration waivers as matching funds or cost-sharing.

If you have any questions regarding either these particular policies or more general financial issues regarding the Society, feel free to contact me, either directly, or through the ASZ business office.

Public Affairs

Peter L. deFur

The Public Affairs Committee organized a successful panel discussion at the St. Louis meeting regarding the problem of Exotic Species Introductions. The panel included Marguerite Holloway (*Scientific American*), Dr. Jim Carlton (DIZ) and Dr. Peter deFur (DCPB). The panelists discussed a brief history of introductions of exotic species, a summary of laws and regulations and the public view of the problem. The question and answer session with the audience of approximately 100 conference attendees revealed the high level of concern and the complexity of dealing with this problem.

Thanks to the efforts of staff and the committee in preparing advance notices and setting up a press room at the meeting, this year's annual ASZ meeting received news coverage in local papers and in *Science* magazine. The *St. Louis Post*

Dispatch carried stories on Saturday and Sunday featuring parasitology, molecular biology and environmental endocrine disrupters. The *Science* story (20 Jan. 1995 pp. 330-331) included an even wider range of topics as well as information on the Society itself.

With a bit of planning, the committee hopes for even more coverage of the Washington, D.C. meeting this December. We will be notifying reporters and editors of the meeting, as well as providing ASZ members with news and opportunities for getting their scientific "news" and information into the popular and scientific press. If there is sufficient demand, we may organize a workshop on talking to the press. See you in D.C.

Educational Council News

The Council has begun work on two projects: a revision of the outdated *Careers in Animal Biology* booklet and planning for an afternoon roundtable discussion session at the Washington, D.C. meeting to exchange viewpoints and strategies on educational topics of importance to the membership. Possible topics for discussion are: 1) revitalizing the SAAWOK tradition; 2) techniques and strategies for undergraduate research training; 3) the use of computers and other advanced technologies in education; and 4) strategies for reaching out to minorities and women.

If you have ideas and comments or additional "hot topics" for the roundtable, please let us know via E-mail

(scook@hboi.edu). Your input will be much appreciated and your name will be added to the distribution list of interested ASZ members.

The Coalition for Education in the Life Sciences (CELS) will hold its annual conference in Madison, Wisc., June 1-3, 1995. CELS is comprised of representatives from various professional societies in the life sciences. The organization focuses on strategies for teaching life science, particularly in the first two years of college. Individuals, as well as society representatives, can participate in the upcoming meeting. For further information, contact Phillipa Claude via Fax at 608/262-0014.

1995 ASZ Annual Meeting to Take Place in Washington, D.C.



It is not too early to mark your calendars for the American

Society of Zoologists' (ASZ) 1995 Annual Meeting, which is scheduled to take place December 26-30, 1995 at the Sheraton Washington Hotel in Washington, D.C. A complete schedule of events will be offered, including symposia, workshops, educational opportunities, networking and a wide array of social events and activities.

Bring your family and celebrate the holidays in Washington, D.C. Or, extend your trip and stay through the New Year. Rates are highly reasonable: \$79 for single or double occupancy and \$89 for triple or quadruple occupancy. These rates are effective from December 23, 1995 to January 3, 1996.

Washington D.C. offers numerous theaters, restaurants, art galleries, antique shops, boutiques and bookstores in Adams-

Morgan, Capitol Hill, Southwest's Waterfront and in the downtown business and theater district. Visit Chinatown and enjoy more than 25 of its own Oriental restaurants, shops and the colorful Friendship Arch that spans the street.

The nation's capital is rich in history and character with an exciting diversity of scientific historical sites for you to explore. Come discover or re-acquaint yourself with Union Station, Washington Harbour, the new Navy Memorial Museum and the Smithsonian Institution, including the National Museum of Natural History. Or, explore the Pavilion at the Old Post Office, Ford's Theater, the FBI, the Treasury, the National Archives, the National Theatre and of course, the White House.

Whatever your pleasure, you are sure to find a multitude of activities and adventures throughout your stay in the Nation's Capital. So, start planning now for the 1995 Annual Meeting, as it is sure to be an event you won't want to miss.

The Sheraton Washington Hotel is approximately five minutes from downtown and within walking distance of the National Zoo.

Who to Contact at **ASZ**

Hello from the ASZ Business Office! If you have any questions or need information about your membership or the annual meeting and need to speak with someone, please call, fax or e-mail us.

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AAAS Sesquicentennial

The American Association for the Advancement of Science, (AAAS), with which the ASZ is affiliated, will be celebrating its 150th Anniversary in 1998. In connection with this, AAAS has petitioned the Citizens Stamp Advisory Committee, which screens new stamp proposals for the U.S. Postal Service, to consider issuing a commemorative stamp for this occasion. The Executive Committee of the ASZ has issued a letter of support for this effort, but as many letters of support as possible will be necessary to influence the Committee's decision. If you, as individuals or as officers of Divisions or of other societies, can come forward with letters of support, this will help advance the stamp cause. Also, AAAS is soliciting suggestions for the design of the stamp and for any other ideas you may have about the celebration. You may send letters of support or any suggestions for the stamp's theme and design to: AAAS Commemorative Stamp Committee, Office of Communications, Room 801, 1333 H Street, N.W., Washington, DC 20005.

The 150th Anniversary of AAAS offers a unique opportunity to rededicate ourselves to leadership within the scientific community that is now global in scope. If you have further suggestions for ways in which we might mark the 150th Anniversary, please contact: Sesquicentennial Task Force, Office of Communications, Room 801, 1333 H Street, N.W., Washington, DC 20005.

Announcements

BIOSIS, the world's largest abstracting and indexing service for the life sciences, announces that it now has mounted its World Wide Web server on the Internet. The BIOSIS web server can be reached via the Uniform Resource Locator (URL):
<http://www.bioxix.org>

Accessing the web server requires the use of software such as Mosaic. Users who have access to the Internet but not to the World Wide Web can receive free educational material and place an order by contacting BIOSIS through its new Internet E-mail address: info@mail.biosis.org or for more information, contact the BIOSIS Marketing and Sales Department at 800/523-4806.

The Scientists Center for Animal Welfare (SCAW) is publishing two volumes of interest to our membership: *Wildlife Mammals as Research Models: In the Laboratory and Field* is the proceedings of a half-day symposium held at the AVMA conference in July, 1994. It includes chapters on Wildlife Management in the Laboratory: Non-human Primates and Other Species, An Overview of Contraceptive Research and Non-capture Methods for Studying Reproduction in Wildlife, Marking and Trapping, Ethics of Keeping Marine Mammals in Captivity and Positive Reinforcement in Training. A second volume is *The Well-Being of Birds in Laboratory and Field Research*. For more information contact SCAW, Golden Triangle Building One, 7833 Walker Drive, Suite 340, Greenbelt, MD 20770, Tel: 301/345-3500, Fax: 301/345-3503.

Conservation Issues and ASZ

Biologists are concerned about the effects of human activities on natural processes, ecosystem structures and individual species. However, we do not often realize our full potential as information gatherers and dispensers, neither individually nor as a scientific collective. To partly fulfill our mandate as publicly-funded scientists and our own desires to preserve the functioning of biological systems, we need to make qualified opinions available beyond our own scientific community. This needs to be done with both legislative and administrative bodies and to the public they represent.

An ad hoc ASZ committee has been appointed to address issues of conservation (here defined as retaining or sustaining natural processes). This committee is chaired by Fraser Shilling, University of California, Davis and includes three other ASZ members, Mary Rice, Smithsonian Marine Station, Fort Pierce, FL; James Brown, University of New Mexico, Albuquerque; and James Carlton, Williams College, Mystic, CT. A non-ASZ member (Christine Schonewald, University of California, Davis) also serves in an advisory role.

The committee will design resolutions that focus on specific conservation issues and will create additional general statements of concern and possible solutions to long-term environmental problems. After review by committee members of various ideas, the larger membership of ASZ will be asked to vote on particular resolutions. Written opinions are welcome from ASZ members regarding the issues that need to be addressed by the committee. In addition, we request your assistance in defining useful words and phrases, such as: "sustainability," "conservation," "natural processes," "ecologically meaningful," "population viability" and "biodiversity." Some of these are used fairly loosely in political circles and require addressing since they make their way into legislative language.

A small sample of issues in North America worth your

immediate attention and endorsement are as follows:

- Passage of legislation that creates ecologically-meaningful reserves in the remaining temperate forest, desert, grassland and wetland ecotypes. An existing example is the Northern Rockies Ecosystem Protection Act (H.R. 2638).
- Rewriting of existing water-utilization (e.g., dams), mining and grazing laws to limit the rapid degradation of riparian areas and in-stream habitats that support threatened populations of invertebrates, amphibians and fish (such as salmonids).
- Creation of umbrella legislation that goes beyond the Endangered Species Act (currently under review in Congress) to include mandates for sustaining specific habitats and ecosystems at a landscape scale (e.g., entire river drainages).

Addressing conservation issues at a global scale is also needed, for example, advocating reduction in consumption and waste production rates and controls on population growth. If we biologists do not make our voices heard in the arenas where environmental problems are addressed, then we are indicating our tacit approval for existing human activities. But, not only do we have to make it known what we think about these activities, we also have to play a role in creating new scenarios for societal functioning that emphasize long-term sustainability over short-term gains (i.e., monetary profit) to small parts of society. Again, we want your input regarding: 1) issues of immediate concern; 2) methods of communication of our concern; and 3) mechanisms for maximizing knowledge-sharing in order to make clear statements of our positions on ecological matters.

Please communicate your issues and concerns to:

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Proposed ASZ Code of Ethics

In recent years an Ad Hoc Committee was appointed to draft a Code of Ethics for the ASZ. Many societies have such a code, and the Executive Committee felt the ASZ should also.

At the annual meeting in St. Louis, the Executive Committee reviewed the proposed Code of Ethics and made some

minor revisions. They now ask that you, the ASZ membership, vote to adopt the Code as presented below. Please use the enclosed ballot to cast your vote. Thank you for your support.

Michael G. Hadfield
ASZ President

American Society of Zoologists: Code of Ethics

Membership in societies, including the American Society of Zoologists, carries with it implied expectations for ethical behavior. This Code makes explicit principles to guide members in the training of new biologists, obtaining new information, applying the knowledge we already have, and communicating with all segments of society. In accepting the following Code of Ethics, members of ASZ agree:

1. They will offer professional advice only on those subjects in which they are informed and qualified through professional training and experience.
2. They will avoid the dissemination of false, erroneous, biased, unwarranted or exaggerated scientific claims; specifically, they will be diligent in exposing and opposing errors and frauds in their area of expertise.
3. They will clearly differentiate between facts, opinions, theories, hypotheses and ideas: they will not mislead students in accord with this Code.
4. They will exercise utmost care in laboratory and field research and teaching to avoid or minimize adverse environmental effects resulting from their presence, activities or equipment. They will sacrifice only those organisms needed to obtain data for professional purposes or to provide specimens for teaching purposes or archival and museum purposes.
5. They will accept compensation for a particular service or report from one source only, except with the full knowledge and consent of all concerned parties.
6. They will neither seek employment, grants or gain nor attempt to injure the reputation or opportunities for employment of another zoologist or scientist in a related profession by false, biased, or undocumented claims or accusations, or by any other malicious action, or by offers of gifts or favors.
7. They will not associate or allow the use of their name on any enterprise known to be illegal, fraudulent or of questionable character.
8. They will keep informed of advances in scientific knowledge and techniques, as well as in related aspects of science and society and will integrate such knowledge and techniques into their professional activities, including teaching.
9. They will not discriminate against others on the basis of sex, creed, religion, sexual preference, disability, race, color, national origin, economic status, cultural mores or organizational affiliation.
10. They will present upon request evidence of their qualifications, including professional training, publication and experience, to any rightful petitioner.
11. They will review the professional work of fellow members and other scientists fairly and in confidence, whether those individuals are subordinates or employees, authors of proposals for grants or contract, authors of technical papers, patents or other publications.
12. They will, in any communication, give full and proper credit to and will avoid misinterpretation of the work and ideas of others.
13. They will assure the rapid interchange and dissemination of scientific information and knowledge.
14. They will accept authorship on published material only for work in which they have participated.
15. They will, within reasonable limits of time and finance, volunteer their special knowledge, skill and training to the public for the benefit of humankind and the environment.
16. They will not engage in any illegal, fraudulent or questionable enterprise that may be contrary to the welfare of the public or the environment.

Proposal to Amend the ASZ Constitution

The following constitutional changes are proposed by the Executive Committee and must now be voted upon by the full ASZ membership. The reasons for these amendments follow.

1. Changes in the Full Member category are designed primarily to clarify the ASZ's criteria for membership.
2. The Associate Member category is proposed to include those individuals who lack a doctorate or equivalent but still are scholars of animal biology in some way, e.g., those who teach at junior or community colleges, part-time instructors at four-year colleges, highly motivated technicians who engage in some independent research

activities on their own or simply those who are interested in the discipline in non-traditional ways.

3. Changes in the Student Member category are proposed in part to cover those students who pursue a master's degree before pursuing the doctorate. A six-year limit to Student Membership seems more realistic than a five-year limit under those circumstances.

Please use the enclosed ballot to cast your vote. Thank you.

Michael G. Hadfield
ASZ President

Proposed Constitutional Amendments

Changes are in brackets [], deletions are ~~crossed out~~

Article II: Membership

Section 2. {Full} Members: Any individual who has [completed] ~~had scientific training equivalent to the doctorate and is active in zoology~~ or who [has scientific training equivalent to the doctorate and] is professionally engaged in the study or promotion of [animal biology] ~~zoology~~ as a scientific discipline, shall be eligible for {Full} Membership. Nomination to {Full} Membership shall be by a {Full} Member of the Society ~~and election to membership shall be by majority vote of the Membership Committee.~~ Candidates who lack the doctorate may be asked to submit documentation of on-going professional activity.

New Section 3. Associate Members: Any individual who lacks the doctorate or equivalent but who has an interest in animal biology and is involved in the study or promotion of animal biology as a scientific discipline may be eligible for Associate Membership. Nomination to Associate Membership shall be by a Full Member of the Society. Associate Members may present a paper or poster at the Society's annual meeting if (1) a Full Member is a co-author of the presentation or (2) the presentation is sponsored by a Full Member. Associate Members shall receive announcements of meetings and all Society publications. Associate Members may vote but may not hold office. Associate Members who acquire the doctorate or the equivalent may petition the Membership Committee to become Full Members.

Section 4. Student Members: Any post-graduate student in biological science who has been nominated by a {Full} Member of the Society ~~and who has completed successfully at least one full year toward an advanced degree or a first year student whose application is supported by a letter of recommendation~~ shall be eligible for Student Membership. ~~Election to student membership shall be by majority vote of the Membership Committee.~~ Normally An individual may ~~not~~ hold Student Membership for ~~more than five~~ (a maximum of 6 years. After six years, the Student Member who has completed a doctorate) shall be automatically (be) promoted to {Full} Membership on demonstration to the ~~Membership Committee~~ of [appropriate] qualification. ~~for membership in the Society.~~ [A Student Member who has not completed the doctorate shall automatically become an Associate Member after six years as a Student Member. A Student Member may request a limited extension of Student Membership. A letter of request signed by both the Student and the Student's advisor (or other appropriate Full Member of the Society) must be submitted to the Membership Committee which shall then approve or disapprove the request. If the Student Member fails to complete the doctorate, he/she shall automatically be promoted to Associate Member on expiration of the extension.] Student members shall receive announcements of meetings and all Society publications. [Student Members] ~~They~~ may vote but ~~They~~ may not hold office. A Student Member may present one paper (or poster) at each meeting of the Society under sponsorship of a {Full} Member.

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Chair 1993-95

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Message From the Chair

David Duvall

If you were able to attend the annual meeting in St. Louis, you probably know how successful the many symposia were. Our Division's primary symposium on "Risk Sensitivity," for example, organized by Peter Smallwood of Bryn Mawr, was simply excellent. For me, one highlight was the presentation by A. Kacelnik of Oxford University. I had read many of his theoretical and empirical papers in this area, but had never heard him speak. I was impressed with his natural ease in making the theoretically dense and complex seem simple. I enjoyed all of the speakers, of course, but this was just one highlight for me. I hope that you enjoyed similar experiences. I am sure that personal favorites will emerge from the symposia currently being organized for Washington, D.C. (1995) and Albuquerque, New Mexico (1996). I am particularly excited by prospects for the exciting symposium currently being organized for the D.C. meeting by Dan Weber, University of Wisconsin, Milwaukee, addressing integration of behavioral and physiological approaches in toxicology. We may be able to support a few other symposia as well. And don't forget, it is possible to organize groups of contributed papers into less formal, thematic "mini-symposia." Please just contact either our new Program Officer (Brent M. Graves) or me, or both, in plenty of time for the meeting.

Future Symposia

Concerning more formal future symposia, if you have any ideas or suggestions regarding directions or emphases, please contact Brent Graves or me.

As the financial conditions of the larger ASZ has improved, significant matching funds have become available within our Division to assist symposium participants and organizers. Most of these funds probably will continue to help support the travel-related expenses of symposium participants. Please keep this in mind as you consider proposing a symposium.

Have a productive year and see you in Washington, D.C.!

DAB 1994 Election Results

DAB welcomes our new Program Officer Brent M. Graves.

The revision of the DAB Bylaws was PASSED as a result of the response to the mail ballot (the revision of the Bylaws was published in the Fall 1994 DAB-ASZ Newsletter).

Congratulations to the DAB Annual Best Student Paper Award Recipients

**Papers presented at the January 1995
ASZ meeting in St. Louis:**

DAB Best Student Paper Award (Oral Paper)

John E. Layne

(Zoology Department/Marine Laboratory, Duke University, Beaufort, NC) for the paper he presented: "The visual control of behavior in fiddler crabs: II. Tracking control systems in courtship and defenses" (by M. F. Land and J. E. Layne).

DAB Poster Paper Award

Jack K. O'Leile

(Department of Life Sciences, Arizona State University West) for the poster he presented: "A novel form of mate-guarding/female defense polygyny in western diamondback rattlesnakes" (by J. K. O'Leile, S. J. Beaupre, and D. Duvall).

Thank you to those who served as judges during the St. Louis meeting: Joan Strassmann, Steve Secor and Paul Cupp. [No Wenner Strong Inference Award was given this year.]

Mini-Symposia

Do you want to address a "hot topic" at a future ASZ meeting? Do you need a shorter lead time than the two years required for a symposium? You can work with our Program Officer to put together about seven speakers for a dedicated oral paper session. ASZ can publicize this on the transmittal form to solicit related papers. "Mini-symposia" would not require publication in the *American Zoologist*.

1995 DAB Election Plans

An election for DAB Chair will be held during the Fall of 1995. The three-year term for the Chairperson will begin following the annual DAB Business Meeting (in December 1995). The procedure will follow the newly revised Bylaws of DAB. "Nominations for the office of Chair will be solicited in consultation with the Animal Behavior Society. At least two candidates for the position should be named, although one write-in candidate is acceptable. Candidates for Chair must be members in good standing of the American Society of Zoologists and of the Animal Behavior Society." "Candidates for elected offices may be nominated by petition. Candidates nominated by petition must be members in good standing of the American Society of Zoologists, and those nominated for the office of Chair must also be members in good standing of the Animal Behavior Society."

The nominees for Chair will be selected before the end of June 1995. Suggestions as well as nominations by petition are welcome; please contact Dave Duvall.

[In 1995, ballots for the DAB election will be distributed during the Fall, as we have done in the past. However, in the future, DAB may be holding its annual elections in the Spring. This will allow the newly elected officer a bit more notice before his or her term begins. The newly elected officer will then take office following the next annual DAB Business Meeting held in December or January at the ASZ Annual Meeting.]

Request for Symposium Ideas

Brent M. Graves and Dave Duvall are actively seeking proposals for symposia at future ASZ meetings. We are interested in building interest and participation in ASZ and in our Division. Please contact one of them if you have an idea for a DAB symposium.

Plan Now for the 1995 DAB Student Paper Awards

The Division of Animal Behavior offers three different student paper awards. There may be two Division of Animal Behavior Best Student Paper Awards presented, one for the student making the best oral presentation and one for the student making the best poster presentation. Additionally, the DAB will offer an Adrian M. Wenner Outstanding "Strong Inference" Award presented for the best oral or poster paper based upon the strong inference approach in experimental design and execution [see Platt, John R. 1964. Strong inference. *Science* 146:347-353. Chamberlin, Thomas Crowder. 1965 [1890]. The method of multiple working hypotheses. *Science* 148:754-759. Wenner, Adrian M. 1989. Concept-centered versus organism-centered biology. *American Zoologist* 29:1179-1199].

To be eligible for the DAB student paper awards, the applicant must be a member of ASZ and the Division of Animal Behavior and must indicate his or her intention to compete on the transmittal form. Eligible papers must be oral or poster presentations of original research by a graduate student or Ph.D. whose degree was awarded no more than one year prior to the time of the meeting.

Judges

If you are interested in serving as a judge for either oral or poster papers (and if you do not have a student competing for this year's awards), please contact David Duvall.

Meetings of Interest

(Much of this information has been gleaned from the Animal Behavior Society Newsletter.)

1995 Meeting of the Animal Behavior Society

8-13 July 1995 at the University of Nebraska-Lincoln. To receive further information contact ABS 1995, School of Biological Sciences, 348 Manter Hall, University of Nebraska, Lincoln, NE 68588-0118 (Tel 402/472-9073; Fax 402/472-2083; E-mail ABS95@niko.unl.edu). The meeting overlaps with the 1995 meeting of the North American Region of the International Applied Ethology Society to be held 8-9 July at the University of Nebraska-Lincoln. For further information on the ISAE meeting, contact Janice Swanson, Department of Animal Science and Industry, 134 Weber Hall, Kansas State University, Manhattan, KS 66506 (Tel 913/532-1244; E-mail jswanson@oz.oznet.ksu.edu).

XXIV International Ethological Conference

10-17 August 1995 in Honolulu, HI. The meeting is open to all who are interested in ethology. Contact Ernest Reese or George S. Losey, Department of Zoology, University of Hawaii 96822 (E-mail IEC@zoogate.zoo.hawaii.edu)

1995 Meeting of the American Ornithologists' Union

15-19 August 1995 at the Cincinnati Museum Center for Cultural and Natural History and Science, Cincinnati, OH. Contact Robert Kennedy, Museum of Natural History, 1720 Gilbert Avenue, Cincinnati, OH 45202 (Tel 513/345-8510; Fax 513/345-8501).

Finding Food: Neurological Aspects of Foraging, a Symposium

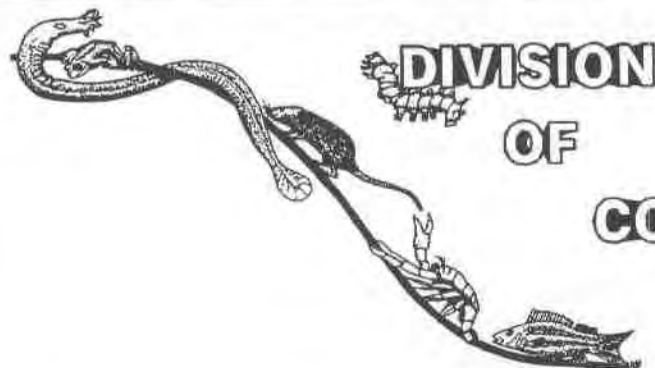
6-8 October 1995 at the University of Massachusetts, Amherst. Contact Gordon Wyse or Elizabeth Bowdan, Department of Biology, University of Massachusetts, Box 35810, Amherst, MA 01009-5810 (Fax 413/545-1696; E-mail gwyse@bio.umass.edu or ebowdan@bio.umass.edu).

1996 Meeting of the Animal Behavior Society

3-8 August 1996 at Northern Arizona University, Flagstaff, AZ.

6th International Behavioral Ecology Congress

29 September to 4 October 1996 at the Manning Clark Centre, Australian National University. A number of pre and post-conference tours are planned. To receive the registration circular and call for papers please contact ACTS, GPO Box 220, Canberra, ACT, 2601, Australia (Fax 61.6.257.3256). For further information on the scientific program please contact Andrew Cockburn, Botany and Zoology, Australian National University, ACT, 0200, Australia (E-mail isbef6@anu.edu.au).



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OF**

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Message From the Chair

Walton W. Dickhoff

The meeting in St. Louis was great. It reminded me of the good old times with lots of friends and colleagues (young and old) presenting good science, and Aubrey Gorbman and Howard Bern giving talks and with great enthusiasm. The turn-out was incredible with 87 presentations in our division (the most of any division). The mini-symposia were great and the workshop organized by Barbara Gower and Tim Nagy filled the room to overflow. I am looking forward to an exciting and well-attended annual meeting in Washington, D.C. You will notice that we have a full slate of candidates for divisional offices. We have changed the timing of our election from the Fall to the Spring, so that officers will have more advanced notice of their roles. There will be many changes proposed for the ASZ in the near future. Please vote so that your views may be faithfully represented.

Other news:

Best Student Papers at the annual meeting in St. Louis:

Winning oral presentation: Wm. Lesley R. Castro. Arizona State University
Biobehavioral and neuroendocrine consequences of separation stress. Abstract #539.

Runner-up oral presentation: Julie A. Heinig. University of Toronto. Sequence of POMC cDNA from lamprey pituitary. Abstract #35.

Winning poster: Clara M. Cheng. University of Maryland. Fish growth hormone stimulation of sulfation uptake by common carp branchial cartilage maintained in culture with the presence of human IGF-I. Abstract #129.

Runner-up poster: Caryl A. Hilscher. University of Notre Dame. Neurohypophyseal peptide control of oviduct contraction in a caecilian amphibian. Abstract # 102.

For the Best Student Paper judging, we would like to thank the judging committee, Thane Wibbels (Chair), Mary Mendonca, Catherine Propper and Nathan Collie.

We would like to thank the members of the nominations committee for their heroic effort: Mark Sheridan (Chair), Catherine Propper and Henry John-Alder.

Notes From the Secretary

Brian M. Barnes

At our next national meeting in Washington D.C., December 26-30, 1995 there will be a symposium entitled: "Amphibian Metamorphosis: an Integrative Approach." For more information contact Tyrone Hayes, Department of Integrative Biology, University of California, Berkeley, CA 94720; E-mail: tyrone@garnet.berkeley.edu. If anyone is interested in organizing a symposium or mini-workshop for the December 26-30, 1996 meeting in Albuquerque, New Mexico, please contact the acting program officer Michael Moore right away. Mike will advise and relay your interest to the newly elected program officer.

The Washington D.C. symposium will bring together researchers working on metamorphosis from diverse fields including ecology and evolutionary biology, physiology/endocrinology and molecular biology. The goal is to explore factors regulating metamorphosis and larval development ranging from environmental factors that determine metamorphic rate, physiological/endocrine responses to environmental change and molecular mechanisms of hormone action, including hormone regulated gene expression. Speakers include Tyrone Hayes, Lawrence Licht, Jim Hanken, Robert Denver, James Collins, Richard Wassersug, Sarah Kupferberg, Yun Bo Shi, Jamshed Tata and Leo Miller.

Minutes From St. Louis

The DCE business meeting was called to order by Walton W. Dickhoff at 5:07 p.m. on January 6, 1995; there were 56 in attendance. Minutes from the 1994 meeting were approved. Walt lauded our Division's greatly improved attendance and thanked the organizers of the symposia and workshops, and gave special thanks to Aubrey Gorbman for his efforts in encouraging attendance at this meeting. Walt noted that the "mini-symposia" (to be called workshops, colloquia or special review topics) concept was appealing and has great promise for continuing to attract high attendance. Membership in the entire society is down, however, by 50% since 1987. There was general discussion about how to reverse this, including rebate bounties and recruiting new members from attendees of the regional meetings.

Discussion topics included changing the society's name, changing the journal to include peer review papers and commentary, and, as always, changing the meeting times and locales. Mike Moore asked that planning for future symposia and workshops be sustained; these are key to keeping the meeting attractive. Nancy Beckage suggested

the national meeting be held with other societies. Paul Licht praised the closeness of this meeting's venues. Martin Schreiber and others cautioned against changing the journal's name, as it is presently highly cited and a money-maker for the Society. Members were encouraged to communicate their feelings about these subjects to Walt. Mary Packard spoke of the Society's desire to lower meeting costs, particularly for symposium participants. This will require increasing the base of attendance to the break-even point of 1,000 registered participants. There was a vote taken to change the timing of the elections to spring, to allow for better planning by the new officers and their participation in the annual meeting that begins their term. All were in favor. Walt noted that the divisional budget has been reinstated and now limited funds are available to support symposia and regional meetings. He said that in keeping with our strategy for maximizing attendance of the national meeting, there should be no southwest or western regional meeting in comparative endocrinology in 1996. He thanked outgoing program officer Michael Moore for his service and adjourned the meeting at 5:44 p.m.

Election of Officers

Candidates for offices for the Division of Comparative Endocrinology include:

Chair-elect: Robert Dores and Louis J. Guilette Jr.

Robert Dores. Professor, Department of Biological Sciences, University of Denver. 1972 - The College of St. Thomas, St. Paul, Minnesota; 1974 - M.S. University of San Francisco; 1979 - Ph.D. University of Minnesota; 1979 - N.I.H. Postdoctoral Fellow, University of Colorado Health Sciences Center; 1983 - N.I.H. Postdoctoral Scholar, University of Michigan; 1985-1989, Assistant Professor, Department of Biological Sciences, University of Denver; 1989-1992 - Associate Professor; 1992 - present - Professor; 1989-1994 - Associate Chair; 1994 - Chair.

Memberships: ASZ, Endocrine Society, AAAS, Society for Neuroscience, American Society of Cell Biology, Society for Molecular Biology and Evolution Editorial Board:

General and Comparative Endocrinology; Peptide Research Research Interests: The evolution of the proopiomelanocortin biosynthetic pathway in the pituitaries of non-mammalian vertebrates; the molecular phylogeny of fish pituitary hormones; the post translational processing and evolution of opioid peptides in the central nervous system of chordates.

Louis J. Guilette Jr. Professor of Zoology and Affiliate Curator of Herpetology, Florida Museum of Natural History, University of Florida. Ph.D., University of Colorado (1981). Professional Society Activities: Society for the Study of Amphibians and Reptiles: Editorial Board (1984-1986), Associate Editor (1986-1988), Journal of Herpetology; Board of Directors (1991-1993), President-Elect (1995); IUCN, Board Member, Species Survival Commission, Crocodile Specialist Group (1990-present), Captive Breeding Specialist Group (1991-present); American Society of Ichthyologists and Herpetologists: Editorial Board (1985-1987).

Research Interests: Evolution of reproductive adaptations — anatomical and endocrine — in vertebrates, evolution of viviparity in vertebrates, endocrine disrupting contaminants in vertebrates.

Program Officer: David W. Borst and Stacia A. Sower

David W. Borst. Professor of Biology, Illinois State University, Normal. B.A. in Biology, Reed College (1969); M.A. in Zoology, UCLA (1970); Ph.D. in Biology, UCLA (1973); Postdoctoral Fellow, Department of Zoology, University of California, Berkeley (1973-1976); Assistant Professor, University of Connecticut, Storrs (1976-1985); Associate Professor, ISU (1985-1990); Professor, ISU (1990-present).

Memberships: ASZ; AAAS; Sigma Xi; Phi Sigma; MBL Corporation (Member of the Nominating Committee, 1990); International Association of Astacology; Crustacean Society. Co-organizer, Midwest Conference on Comparative Endocrinology, ISU (1992). Co-Chair and Chair, Graduate Student and Postdoctoral Affairs Committee (GSPAC) of ASZ, 1989; Organizer of discussion panels for GSPAC on: The Publication Process (1990); Nonacademic Jobs for Biologists (1991); Strategies for Finding an Academic Job (1992); Research Funding for Graduate Students and Postdoctoral Fellows (1993).

Research Interests: Hormonal regulation of growth, metamorphosis and reproduction in arthropods; role of prolactin and insulin in mammary gland development.

Stacia A. Sower. Professor of Biochemistry and Molecular Biology, University of New Hampshire, New Hampshire, Durham; B.A., Biology (1973) University of Utah; M.S., Fisheries and Physiology (1978), Ph.D., Fisheries and Physiology (1980) Oregon State University; Postdoctoral Fellow (1980-1983), Department of Zoology, University of Washington; Assistant Professor of Zoology (1982-1987); Associate Professor of Zoology and Biochemistry and Molecular Biology (1987-1992); Professor, 1992-present. Awards and Honors: NSF Career Development Award (1988-1989); UNH Award for Excellence in Public Service (1991); NSF Faculty Award for Women Scientists and Engineers (1991-1996); Visiting Scientists Fellowship from Kitasato University, Japan (1992).

Memberships: American Society of Zoologists; AAAS; Sigma Xi; Endocrine Society; Society for Neuroscience; The New York Academy of Sciences. Professional Activities: Member, NSF Regulatory Biology/Physiological Processes Panel (1988-1992); Member, American Heart Assoc.; NH Affiliate Research Committee (1991-1994); Member, American Institute of Biological Sciences Panel

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Program Officer

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for Marine Biotechnology Proposals (1994); Member, NSF Academic Research Infrastructure Program Panel (1994); Member, NSF Neuroendocrinology Panel (1994); Secretary, ASZ Division of Comparative Endocrinology (1988-1989); Organizer and Chair, Sex Differentiation/Determination

Workshop, Chicago (1992); Co-organizer, 13th and 22nd New England Endocrinology Conference, 1985, 1994; Chair, Best Student Paper Committee (1986).

Research Interests: Comparative reproductive physiology and neuroendocrinology of reproduction in vertebrates.

Secretary: Henry B. John-Alder and Marcia J. Loeb

Henry B. John-Alder. 1974 BA, Franklin & Marshall College; 1979 MS, The Pennsylvania State University, State College; 1983 Ph.D., University of California, Irvine. 1985-91 Assistant Professor; 1991-present, Associate Professor, Department of Biological Sciences, Rutgers, The State University of New Jersey.

Professional Affiliations: AAAS, American Institute of Biological Sciences, American Society of Ichthyologists and Herpetologists, American Society of Naturalists, ASZ.

Research Interests: Integrative investigation of the endocrine causes and ecological consequences of individual variation in exercise performance. I work with lizards in both field and laboratory and I combine descriptive, correlational studies (e.g., analyses of seasonal variations in hormones and exercise capacities) with invasive, experimental work (e.g., hormone implantations). At present, my work on the hormonal regulation of exercise performance emphasizes steroids and thyroid hormones. In trying to understand the consequences of individual variation, I use DNA fingerprinting to investigate parentage in natural populations of lizards.

Marcia J. Loeb. Obtained her Ph.D. in 1970 from the University of Maryland by studying the endocrinology of jellyfish metamorphosis, and continued this work through Postdoctoral appointments. A stint at the UC North Wales shifted her attention to bryozoan settlement, but since 1978 she has been studying endocrine aspects of lepidopteran diapause, male reproduction and more recently, midgut cell differentiation at the U.S. Department of Agriculture, Beltsville, Maryland. She has also taught general biology, vertebrate anatomy and physiology and invertebrate zoology for short periods. She was co-organizer of the Eastern Regional meeting of the Division of Comparative Endocrinology in 1990 and co-organizer of the symposium, "Hormonal Control of Growth and Reproduction in Arthropods" at the annual meeting of the ASZ in 1991. She has attended, contributed to and often chaired ASZ sessions annually for the last 15 years.

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Message From the Chair

Louis E. Burnett Jr.

The Division of Comparative Physiology and Biochemistry made a number of important steps at the ASZ Annual Meeting (January) in St. Louis. First, we approved divisional sponsorship of the journal *Comparative Biochemistry and Physiology*. Our division is one of the largest international groups sponsoring the journal. Terms of the sponsorship require us to nominate a number of individuals as associate editors and editorial board members. Peter Hochachka, the co-editor of the journal along with Tom Mommsen, has included two ASZ members as associate editors (Jeff Hazel and Charlotte Mangum) and six ASZ editorial board members (Ross Ellington, Ray Huey, Donal Manahan, Skip Pierce, Lynn Riddiford and Joe Siebenaller). Terms of our sponsorship bring greatly reduced subscription fees to members of ASZ, a real benefit of being an ASZ member. These rates are published elsewhere in this newsletter. In another action requiring a bylaws change, the division voted to withdraw its sponsorship from the *Journal of Experimental Zoology*.

In the Fall newsletter it was announced that Warren Burggren will be stepping down as editor of the journal *Physiological Zoology*. This journal is also sponsored by the division and in accordance with our bylaws, the divisional executive has set about to appoint a new editor. In the fall newsletter we solicited proposals for a new editor. At this writing the divisional executive is reviewing proposals and will soon make its recommendation to the publisher. I want to take this opportunity to acknowledge the hard work of Warren, associate editor Stan Hillyard and before that associate editor John Roberts. The Society is greatly indebted to Warren, his associate editors and the support staff for doing a fantastic job. Warren has been editor of *PZ* since 1988. During his tenure as editor he has broadened the coverage of the journal and through judicious appointments to the editorial board, made the journal truly international in scope. As editor Warren has also been a real experimentalist, inviting symposia and technical reports to the regular format. The clear challenge of the divisional executive is to find someone to carry on the fine tradition established by Warren and his predecessors.

Our activities with our sponsored journals have never been greater than they are now. The divisional executive is having to make recommendations for editorial appointments on a regular basis. In an effort to open up the process of editorial appointments to our membership I am attaching below a brief format to solicit input for individuals to serve on editorial boards. You may nominate yourself and as many individuals as you wish.

Nora Terwilliger, our new program officer is reporting to you on the programs we have lined up at a number of regional, national and international meetings. It should be clear to you from reading this newsletter that ASZ has a lot to offer its membership. Your membership in ASZ is important. I hope you value the programs, the meetings and the influence we have over our sponsored journals. Do not take ASZ for granted. Pay your dues and recruit a colleague and your students to join.

Report From the Program Officer

Nora B. Terwilliger

There are some excellent opportunities for sharing science this coming year. First, there's the DCPB divisional meeting in Charleston, SC (or Charleston East, from the Oregon perspective), on May 22 and 23. Those of you who have attended smaller, single session meetings know how informative meetings like this can be, depending on the science that we present, of course. The deadline for registration and abstracts was April 19. Those of you lucky enough to be done teaching by then can perhaps stay over for the Spoleto Festival of Musical and Cultural Arts. If you've misplaced your February mailing from Lou Burnett, contact him at burnettl@cofc.edu Fax 503/953-5453, 803/953-5504.

Then there is the IUBS meeting in Birmingham, U.K., the 4th International Congress of Comparative Physiology and Biochemistry, August 6-11, 1995. (That's Birming'um, according to a native). The themes are Motile Systems and Movement, Gas Exchange, Metabolic Adaptations, Neurobiology and Neuroendocrinology, and Transport Across Membranes. Reduced rate registration and travel award applications were due April 1, but on-site registration is available for an extra fee. While the 40 symposia and 6 plenary talks promise a stimulating program of current developments in biochemistry and physiology, the contributed poster sessions are a great way to communicate with your international colleagues. Remember Liege, Baton Rouge and Tokyo? You should have received at least one brochure by now; if not, contact burnettl@cofc.edu

December in D.C.: a reminder that the annual ASZ meeting will be in Washington, D.C., December 26-30, 1995. DCPB is sponsoring four symposia at this meeting:

1. Comparative aspects of the control of arterial blood gases: ventilatory and cardiovascular perspectives (Organized by C.L. Reiber and T. Wang).
2. Mechanisms and outcomes of behavioral toxicology

(Organized by D. Weber). DCPB, co-sponsor.

3. Bats, insects and ultrasound (Organized by W.E. Conner). DCPB, co-sponsor of ASZ-wide symposium.
4. Mudflats to molecules: biological adaptations in estuaries. (Applications to the Chesapeake Bay). (Organizers, P.L. deFur and Lou Burnett)

This is a recent addition to the program that both reflects the strengths of ASZ and has significance to the region. The symposium will address adaptations at the molecular, organismal and ecological levels. Applications of these adaptations to environmental policy and management issues will also be discussed and specific topics will be presented within the larger context of environmental restoration. Several other divisions have been invited to co-sponsor the symposium with DCPB. There may be additional DCPB special topics as well, plus your contributed papers and posters. The DCPB traditionally schedules related abstracts into the same contributed paper session, as much as possible. We hope to enhance this by encouraging you to talk with your colleagues in advance and submit a cluster of abstracts for a thematic contributed paper session — something less than a formal symposium but more than a hodge podge. We hope you'll start planning now to submit an abstract and spend part of the holidays in Washington, D.C.

Looking ahead to '96 annual ASZ meeting: it will be in Albuquerque, New Mexico. The time is ripe to submit your idea for a symposium or a mini-symposium or a workshop or an integrative contributed paper session on a theme that crosses divisional boundaries. Call your friends, choose a topic, think about desert or mountain biology and Christmas in New Mexico and send me an E-mail (nterwill@oimb.uoregon.edu).

Minutes of the DCPB Business Meeting - St. Louis

Tim Casey

The meeting was called to order at 5:04 p.m. on 5 January 1995 by Louis Burnett, the Divisional Chair. Minutes from the last business meeting were approved. Lou announced the results of elections for program officers. Dr. David Towle was elected Chair-Elect (to become Chair of the Division in January 1996) and Dr. Nora Terwilliger was elected Program Officer. Lou presented outgoing Program Chair, Bill Stickle with a plaque and expressed the division's thanks for his service. He also thanked Linda Mantel for her service as Division Chair.

Membership

Bob Full reported for the Membership Committee. ASZ has really suffered from loss of membership. The Society has dropped from 5,300 members in 1987 to 2,100 members in 1995. The recent financial crisis is partly responsible, but does not account for the total loss of members. The Society is facing multiple problems. There is a perception from people outside the Society that ASZ is not on the cutting edge of research and that it is becoming provincial.

We need to turn these perceptions around and Bob offered some suggestions as to how this could be accomplished. Our division is looked to for leadership. If we don't change societies (and we can) we'll remain strong and provide appropriate examples. We need to recruit the best in our field to join this Society. Submit names to the Membership Committee and we'll pull them in (or pull them back in). If you have ideas about how to increase membership in DCPB and in ASZ in general, please send them to one of the division executives or to Bob Full. This is a serious issue which needs the attention of all our members.

Outgoing Program Officer Bill Stickle reported that the DCPB sponsored three symposia at St. Louis Meeting. This year there were 443 abstracts society wide (roughly the same as last year). However the number of abstracts in Comparative Endocrinology/Invertebrate Zoology was double that of last year. Only 44 posters were presented this year.

Education

Bob Infantino mentioned that there's a lot going on in the computer realm for teaching physiology by computer. Contact Bob (INFANTIN@zool.umd.edu) if you're doing good things in physiology teaching or want further information.

There is a need for all of us to do more with teaching. People who present educational type posters at meetings should not be penalized. They should be allowed to present a poster on their research as well.

Lou mentioned the divisional meeting in Charleston this summer and invited everybody (see Nora's report for more specifics).

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Nominations for Journal Editorial Boards

To assist the divisional executive in finding qualified individuals to serve on the editorial boards of our sponsored journals (*Physiological Zoology* and *Comparative Biochemistry and Physiology*), we ask your assistance. The following information should be forwarded to the division chair (preferably by E-mail and in the format indicated below). Self-nominations are encouraged.

1. Name:
2. Address:
3. Phone:
4. Fax:
5. E-mail:
6. Educational Background (list degrees earned):
7. Current Position:
8. Areas of research expertise (briefly outline your disciplinary strengths using key words or short phrases):
9. Reviewing and Editorial Experience (indicate the journals for which you are a regular reviewer; indicate journals for which you have served on editorial boards with dates):
10. Member of ASZ?
11. Recent ASZ Meetings attended:

Minutes of the DCPB Business Meeting - St. Louis

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Journal Changes — JEZ

The division voted to change our bylaws to abolish our sponsorship of the *Journal of Experimental Zoology*. Ross Ellington briefly outlined the history of our relationship with the journal. For a number of years the executive board of the division has worked in good faith to honor the terms of agreement between the division and the journal, especially with regard to the appointment of the divisional editor. There is no longer the interest on the part of the *Journal of Experimental Zoology* to sustain this relationship. For several years the division's name has been used, but we don't have appropriate input or feedback. Thus, the division recommended that the relationship be dissolved.

Physiological Zoology

Warren Burggren has decided to step down as editor of *Physiological Zoology*. Thanks Warren, we really appreciate your efforts and you will leave the journal in very good shape for the next editor. The division must come up with the names of prospective editors to submit to the publisher. Proposals are submitted to Lou Burnett and the division executive will evaluate these and make a recommendation.

Comparative Biochemistry and Physiology

Peter Hochachka has agreed to serve as editor of *CBP*. Stringent referee standards are to be imposed. They want to make this a truly international journal and in the process re-infranchise societies. Several societies worldwide are contributing including Japan, Europe, Canada and the Society of Experimental Biology. See Lou's remarks for the members of DCPB who have accepted editorial board and associate editor positions.

All associate editors are society suggested. Advantages accrue to the Societies by such arrangements. The editorial board helps guide the future. Special subscription rates (under \$100) are available to members of DCPB.

If you are interested in being considered as an associate editor in the future be sure and provide the information requested in Lou's report. The division executive will maintain a record of interested people to suggest for future divisions. Those who serve receive a free subscription to the journal.

A formal vote to amend the bylaws to set up a relationship with *CBP* and sever our ties with *JEZ* passed by voice vote.

The meeting was adjourned at 6:12 p.m. Respectfully submitted, Tim Casey, DCPB Secretary (1995).

Best Student Paper Awards

There were 13 entries in the Best Student Paper Award Competition at the St. Louis meeting. This year, there was a dead heat for the top prize in the oral presentation category. The co-winners are Carlos Navas from the University of Connecticut, Storrs for "Thermal ecology and metabolic physiology of high elevation neotropical anurans" and Blair Wolf from Arizona State University for "Partitioning respiratory and cutaneous evaporative water loss at high temperatures in a small bird."

In the poster presentation category, first place goes to Stephen Roberts from Arizona State University for his

presentation, "Water loss and metabolic rate during flight in the bees *Centris pallida* and *Apis mellifera*." David Scholnick from the University of Colorado, Boulder, took second place for his poster "Physiological and behavioral responses of the tadpole shrimp *Triops longicaudatus* to hypoxia."

The selection committee was impressed with the high quality of the presentations and wishes to extend congratulations to the winners and to commend all of the participants for their fine work: Darwin Jorgensen, Chair, Best Student Paper Committee, Roanoke College.

George A. Bartholomew Award

The Division of Comparative Physiology and Biochemistry announces the competition for the third George A. Bartholomew Award. Candidates are invited from any field that emphasizes an organismal and functional perspective (e.g., comparative physiology, comparative biochemistry, comparative endocrinology, functional morphology, behavioral endocrinology). Eligible candidates will have received their doctorate in the preceding seven years. The winner will be invited to present a special research paper at the next annual meeting of the Society. Reasonable expenses associated with the meeting (registration, travel, room and board) will be covered by the fund. Barbara A. Block (University of Chicago) received the First Bartholomew Award at the 1994 meeting in Los Angeles. This year's award was presented in St. Louis to Dr. Peter C. Wainwright.

Individuals may either apply directly or may be nominated. Unsuccessful applicants may reapply in subsequent years. Applications should consist of (1) a summary of the applicant's work (no more than three pages), (2) selected reprints, (3) a curriculum and (4) three letters of recommendation.

Applications should be sent by 1 August 1995 to Raymond B. Huey, Department of Zoology NJ-15, University of Washington, Seattle, WA 98195; phone 206/543-1505; E-mail: hueyrb@zoology.washington.edu

The Division of Comparative Physiology and Biochemistry is now soliciting contributions towards an endowment for the George A. Bartholomew Award. Contributions will be used initially to cover the expenses associated with the awardee attending the annual meeting. However, once the endowment is sufficiently large, we hope to add a cash award as well. We hope you will agree that young investigator awards — especially one named in honor of Bart — are a worthy activity of ASZ. Consequently, we encourage you to donate generously. Please write a check to the American Society of Zoologists (indicating on the check that it is for the Bartholomew Award Fund) and mail to ASZ, P. O. Box 809278, Chicago, IL 60680-9278. If you wish to contribute over several years, please include a note to this effect — we will arrange to have a reminder notice included with your annual dues announcement.



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Message From the Chair

John B. Morrill

Congratulations to all the participants and invited symposia speakers of a most successful meeting at the Adam's Mark Hotel, St. Louis, this past January. Special thanks to the organizers of our two divisional half-day symposia: Jo Ann Cameron's "The Cutting Edge: Biology of Wound Healing and Regeneration" and Jon Henry's "Development and Evolution of Animal Body Plans." In addition, J.D. Ferraris' ASZ symposium on "Molecular Approaches to Zoology and Evolution" had sessions and speakers of particular interest to developmental biologists and embryologists as did several other symposia including those on Phylogenies, Historical Patterns of Developmental Integration and Zebra Mussels. Collectively, there were some 80 presentations of interest to comparative developmentalists and embryologists.

Special thanks to Jo Ann Cameron, now past Chair and Lorette Javois, our Divisional Secretary, for carrying our division and its activities during the last two transitional years of reorganization of the ASZ.

The sense I derived from the St. Louis meeting is that the Society and our division are evolving and searching for renewed interests, missions and active participation. Since the mid-1960s, total society membership has declined from 6,000 to 1,163; our division's membership has ebbed from 2,200 to 483 primary affiliates as of November 1994. Of the latter, there are some 240 functional members. In this same period, the Society for Developmental Biology has swelled to over 1,350 members with over 150 poster presentations at its 1994 meeting. Similarly, at the 1994 ASCB meeting, there were some 350 presentations spanning 14 areas of developmental biology.

Rather than compete for interest, attention and participation with other developmental societies and meetings, our division might concentrate on the various facets of integrative, comparative and evolutionary animal development and embryology. In the last five years, our division's most successful symposia have been on comparative and evolutionary aspects of embryonic development. While some symposia have been published in the *American Zoologist*, others have not because of being published elsewhere. Accordingly, I encourage our remaining members and their colleagues to consider organizing a symposium, workshop or refresher course for the 1996 annual meeting in Albuquerque, New Mexico.

Message From the Program Officer

Louise Luckenbill-Edds

Plans for the 1995 Annual Meeting to be held in Washington, D.C. at the Washington Sheraton December 26-30 are being finalized. I am organizing a symposium entitled, "Forces in Developmental Biology Research: Historical and Current Perspectives" to be sponsored by our division. Talks emphasizing the historical roots of basic issues like embryonic induction, cytoplasmic localization and morphological movements will be presented in conjunction with talks summarizing current research in these areas in an effort to examine how the early concepts have evolved.

Notes From the Divisional Business Meeting

Lorette C. Javois, Secretary

The annual business meeting for the Division was held in St. Louis on Friday, January 6, 1995. Outgoing chair, Jo Ann Cameron reported that the division supported the keynote speakers for the two mini-symposia by covering their hotel expenses. Also, the division is awarding \$100 each to the two student winners of the Best Paper Award.

Several issues of general interest were discussed. It was proposed that joint contributed paper sessions be organized between divisions to combine presentations of papers on similar topics, rather than having the papers presented by division regardless of topic. It was also proposed that the division sponsor workshops and reinstitute evening films on teaching- or research-related topics or to preview commercially available videos. Finally, it was generally agreed that members should encourage their students to join the division, invite colleagues to join and be vocal about the division when they attend regional Developmental Biology meetings.

Message From the Grad Student/Post-Doctoral Affairs Rep

Pat Glas

I attended the graduate student/post-doc events at the meeting in St. Louis and would like to report that this committee is working to encourage graduate and postdoctoral involvement in the organization as well as interactions between students and the communities. On that note, anyone who is interested in acting as a "scientist mentor" for a child (grades 4 through 9) may be interested in a program called "Science-by-Mail." This science education program pairs volunteer scientist mentors with students, sends students activity kits covering a variety of topics and encourages the students and mentors to correspond to discuss the activities. Further information may be obtained by calling (800/729-3300) or writing the Science-by-Mail program at the Museum of Science, Science Park, Boston, MA 02114.

Congratulations to the Best Student Paper Award Recipients

Six student presentations (4 posters and 2 talks) were eligible and considered for this award at the meeting in St. Louis. The judges felt all the presentations were excellent and would like to congratulate the students for their efforts. Two were rated "outstanding" and each student awarded \$100: Steve Minsuk of the Department of Molecular and Cell Biology, University of California, Berkeley for his talk entitled, "Surface Mesoderm in Pipid Frogs," and Michael Misamore of the Department of Zoology and Physiology, Louisiana State University, Baton Rouge for his poster entitled, "Light, Fluorescence and Laser Confocal Microscopic Analysis of Fertilization and Polyspermy in Serotonin Spawned Eggs of *Dreissena Polymorpha*."

Nominees for Divisional Offices

Nominees for the Divisional Offices of Chair-Elect (1996), Program Officer-Elect (1996) and Secretary (1996-1998) are being sought. Elections will be held in

the Fall. Interested individuals should contact Hans Laufer, Chair of the Nominating Committee (Tel. 203/486-4117).

Meetings of Interest

The Southeast Regional Developmental Biology meeting will be May 26-28, 1995 at The College of William and Mary, Williamsburg, VA. Contact Dr. Margaret Saha for more information (Tel. 804/221-2407; Fax. 804/221-6483; E-mail mssaha@mail.wm.edu).

The Society for Developmental Biology will hold its annual meeting August 23-27, 1995 at the University of California, San Diego campus.

Contact the Executive Offices for more information (Tel. 301/530-7120; Fax. 301/530 7139).

The Mid-Atlantic Regional Developmental Biology Meeting will be October 12-14 at the Uniformed Services University of the Health Sciences, Bethesda, MD. Contact Dr. James Coulombe for more information (Tel. 301/295-3219; Fax. 301/295-1715).

The American Society for Cell Biology will hold its 35th Annual Meeting December 9-13, 1995 in Washington, D.C. Contact the Executive Offices for more information (Tel. 301/530-7153; Fax. 301/530-7139).

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Message From the Chair

Howard R. Lasker

Starting off as the new chair of the Division of Ecology, I would first like to thank Rick Grosberg for his job as chair during the somewhat uncertain times of the past two years. During a time when many of us were wondering whether the Society would survive, Rick was an enthusiastic advocate both for the Society and for changes to improve both the Society and the division.

Along those lines, my first item of business is to ask you to vote for the proposed change in the division's name, from the Division of Ecology to the Division of Ecology and Evolution. This is an issue that Rick raised at the division business meeting in St. Louis and I and virtually everyone at the meeting agreed. Adding Evolution to our name more accurately reflects the interests of many of the division's members and it helps fill a void in the Society. Those individuals who define themselves as evolutionary biologists have had no obvious home in the Society and that is a void that I think we should fill. Changing our name requires a change in the bylaws and that requires a vote of the division membership. Please vote (and then remember to mail in the ballot).

Those members who attended the ASZ Annual Meeting in St. Louis know both the good and bad news about both the Society and the division. On the positive side, everyone who attended the St. Louis meeting was treated to exciting symposia on molecular approaches to zoology organized by Joan Ferraris and Steve Palumbi and on experimental community ecology organized by Joe Bernardo. The organizers of both symposia are to be congratulated for putting together great programs. Also on the positive side is the return of the Society to financial health. A ledger sheet with a positive balance removes a great cloud from our future.

The one serious concern that was often repeated in St. Louis was the slow, but steady decline in membership in recent years. There are as many theories to explain that decline as there are analysts. Instead of dissecting the statistics I think it more fruitful for us to remind ourselves why we joined the Society and then make sure that the Society provides those benefits. The Society is only going to start growing again, when we individually believe it is an organization that our colleagues and students should join.

I joined the Society when I realized that the annual meetings were one of the major venues for me to present my research, see friends and colleagues and hear about their work. Thus, I would like to see us work toward making the annual meeting something that we all want to attend. The Society is working to identify the timing and venue that will most satisfy the membership, but I think it is up to us as members of the division to make sure the program is there to attract participants. It appears that we will be co-sponsoring a Society-wide symposium on the Chesapeake Bay, but we are still looking for other symposia for the 1995 meeting in Washington, D.C. (or for future meetings). If you have any ideas, please contact Joe Bernardo, our new program officer.

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Message From the Chair

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One idea that I would like to try out is an extension of an idea that Charlotte Mangum advanced last year. She had suggested that we organize small mini-symposia. I would elaborate on that idea, suggesting that if you can get together a group of people all speaking on a topic, we can set up a session for the group. This could be organized as a "mini-symposium" with somewhat longer talks or you could stick with our regular format of 20-minute talks. The sessions presumably, would be something that you would like to see happen and might be a good way to convince more of your colleagues and friends to come to the meeting. If we can get

a few of these running each year, we may be able to make the annual meeting something we all automatically put on our schedules.

For me, the ASZ and the DE fill a somewhat unique function. While I usually label myself as a marine ecologist or a population ecologist, my science is oriented around the study of organisms at a wide range of levels. The ASZ is the only society that has an annual meeting where in the space of a few days, I can hear Rick Grosberg talk about population structure, Mimi Koehl talk about fluid dynamics and functional morphology and Earle Werner talk about community structure. The Society really is about "integrative biology." If we support it with our ideas and our presence at the annual meeting, it should be an exciting organization.

Minutes From the St. Louis Ecology Division Business Meeting

1. Student awards: There was discussion and agreement to provide an additional \$100 for winners of the best student paper and poster awards if they attend the next annual meeting and act as judges for the next round of student competitions.
2. Division budget: The division presently has a \$2,000/year budget. Ideas for spending the money included increasing the student awards (see above), funding mini-symposia, socials and socials for the mini-symposia.
3. Meeting attendance: It was noted that attendance was lower than last year's meeting. It was suggested that this may have been a result of not meeting the Western Society of Naturalists or because of the meeting location. Solutions for increasing attendance were discussed and the consensus was that individuals must actively recruit new members.
4. Animal Behavior: The possibility of a merger with the Division of Animal Behavior was discussed. No conclusions were reached.

Student Paper Awards

The best student paper award went to Tamara McGovern from Florida State University. A close runner-up was Adele Pile from the Virginia Institute of Marine Science. Overall, the judges liked a number of the oral presentations.

The quality was fairly high although participation (only nine) was unfortunately low. No awards were given for the best student poster. The judges were Fred Janzen (chair), Diana Hews, Gary Packard, Willem Roosenburg, Jonathan Losos, Jon Geller, Howard Lasker and Don Levitan.

Meetings of Interest

The 7th International Congress on Invertebrate Reproduction

5-11 August 1995, Santa Cruz, CA. Abstract and registration due 1 May 1995. Contact: John Pearse: Institute of Marine Science, University of California, Santa Cruz, CA 95064. E-mail: pearse@biology.ucsc.edu.

Larval Biology Meetings

16-19 August 1995, Fort Pierce, FL. Abstracts and registration due 1 June 1995. Contact Craig Young, Harbor Branch Oceanographic Institution, 5600 Hwy 1 N., Fort Pierce, FL 34396. E-mail: youngc@roo.fit.edu.

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Message From the Chair

Larry T. Spencer

I had hoped to include in this newsletter a slate of new officers for you to vote on, but no such luck. Chuck Dinsmore has worked diligently on this matter, but so far to no avail. He needs your help. The officers that we need to elect are a Chair-elect, a Program Officer and a Secretary. If you would like to volunteer for one of these offices or you know someone who would be a suitable candidate, please contact either Chuck or myself (E-mail: cdinsmor@rpslmc.edu or larrys@psc.plymouth.edu). I am grateful to Bill Hummon for continuing on in the Secretary position through this newsletter, but I cannot expect him to do so forever.

I should like to note that J. Todd Streelman was awarded the Divisional award for the best graduate paper presented at the St. Louis meetings. He also has volunteered to serve as our member on the Graduate Student/Postdoctoral Affairs Committee of the ASZ. In the same vein, Patricia Brown of Sienna College has volunteered to serve as our Divisional representative on the Public Affairs Committee. Thanks go to Todd and Patricia for their willingness to help the division.

Louise Luckenbill (E-mail: luckenbill@mail.oucom.ohiou.edu) is organizing a symposium for the next meetings in Washington, D.C. As it is a bit late, she may not be able to get it approved, but she would like your support and assistance. Each division has some funds to support symposia. If you know of other sources of funds, she would be interested in hearing about them. The symposium will deal somewhat with biologists associated with the Washington, D.C. area in the 19th century. Kristian Fauchald has also volunteered to assist in putting together a series of contributed papers on historical/philosophical matters and will "drum-up" business amongst the zoologists at the Smithsonian Institution. If you have other suggestions for the Washington meetings, please contact me, as I will act as program officer until we can officially elect a person.

Don't forget — the International Society for the History, Philosophy and Social Studies of Biology will be holding its biannual meeting at the University of Leuven, Belgium this summer. This Fall, the History of Science Society's annual meeting will be held in Minneapolis (26-29 October). Looking far ahead, the VIth International Congress on the History of Oceanography, a subject close to my heart, will be held in Qingdao, China, summer of 1998. Qingdao is a Chinese city with a somewhat European look in northeast China. I spent an enjoyable week there and met many of the faculty at the First Institute of Oceanography. Although the history of the institute doesn't stretch back as far as Scripps or WHOI, it has been a powerhouse for recent oceanographic studies.

Message From the Past Secretary

William D. Hummon

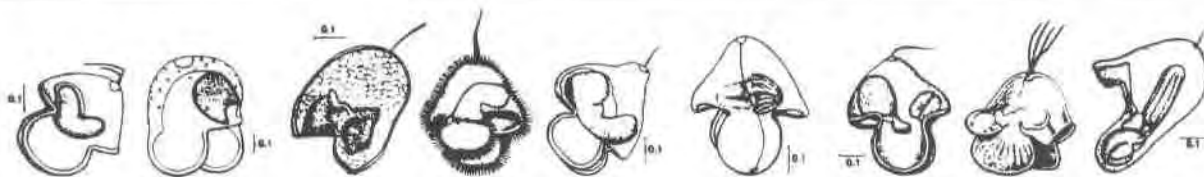
As our division has not elected a successor to me as Secretary, I agreed to take minutes at the ASZ Meeting in St. Louis and to submit them for the Spring Newsletter. The Business Meeting of the Division of History and Philosophy of Science was opened at 5:05 p.m. on Saturday, 7 January 1995, with five persons present. Our contributed paper session was down from two papers in December 1993 to one paper, along with one poster, in January 1995. Come now, members of the DHPB, we can surely do better than this!

A nominating committee was established in November 1994, with elections for Secretary, Program Officer and Chair-Elect to be considered. These elections were to have taken place during the Fall of 1994, but a shift to Spring elections was in order anyway, so nominations were to be completed

in time to be included in the Spring Newsletter. The DHPB will co-sponsor a symposium at the December 1995 meeting in Washington, D.C., with the Division for Developmental Biology. Chair Larry Spencer will take care of the details. We would like to co-sponsor a workshop/symposium with the Education Committee at the December 1996 meeting in Albuquerque on the subject of "Bringing the History/Philosophy of Biology into the Classroom: Who is Doing it and How is it Being Done?" The idea is to have summaries or mock presentations and to invite any and all to bring bibliographical materials to share with others. Chair Larry Spencer will take care of the details.

The meeting was closed at 5:37 p.m.

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Message From the Chair

Jan Pechenik

Following in the footsteps of Jim Carlton and his predecessors will be no easy task, but I am happy to give it a try.

The St. Louis meeting went very well indeed. Now it is time to begin thinking about upcoming meetings in Washington, D.C. (December 1995) and Albuquerque, New Mexico (December 1996). Please contact the Program Officer, Jon Norenburg, with ideas for symposia (sossc001@sivm.si.edu). And do try to attend these meetings, bringing with you all the graduate students you can carry!

We now have a new representative to the Graduate Student/Postdoctoral Affairs Committee, Michelle Duval. Michelle is a third-year graduate student at Duke University, studying the chemical control of feeding behavior in adult fiddler crabs. She replaces outgoing representative Ladd Johnson, who has accepted a faculty appointment at Laval University in Quebec. Another hard act to follow, but Michelle is clearly up to the task and is eager to hear from other graduate students about changes they would like to see in how we do things (duval@acpub.duke.edu).

The first issue of *Invertebrate Biology*, the new incarnation of *Trans. Amer. Microsc. Soc.*, is about to appear under the editorship of Vicki Pearse (vpearse@cats.ucsc.edu). DIZ is cosponsoring this "new" journal, which will now include all aspects of invertebrate biology. Please support this exciting venture by subscribing (a mere \$24 per year), encouraging your library to subscribe (a mere \$50 per year) and submitting the manuscripts of which you are most proud.

In this issue I launch a new column "The Teacher's Corner", in which I hope we can share ideas about the teaching of invertebrate zoology. If you have an innovative approach that works, please send along a brief description (jpecheni@emerald.tufts.edu). Innovative approaches that didn't work might be interesting to hear about, too. In any event, I would like this to be a forum for exchanging ideas and approaches rather than a series of soliloquies from me. For the next issue of the newsletter, please send comments about the first column and/or contributions for the second column, which will deal with the following topic: What are your specific goals in teaching invertebrate zoology, to what extent do you achieve them and how do you make it happen? Also feel free to submit ideas for future columns. If it looks like we're doing something worthwhile, perhaps we can eventually move to a bulletin board format.

The Teacher's Corner

Jan Pechenik

I start my invertebrate biology course off with the annelids. It turns out that John Pearse has been doing the same thing for years, so it must not be as crazy as it sounds. For students with as little background and laboratory experience in organismal biology as I typically see at Tufts, the protozoans, sponges, flatworms and other non-coelomate groups are just too bizarre and bewildering as starting points. Instead, in the first few lectures I talk about classification and the various ways of deducing phylogenetic relationships, plunge into the general features of protostome development and then discuss aspects of annelid biology.

The annelids are an ideal group to start with for the following reasons. The systematics are straightforward, with only three classes to become familiar with, and the associated vocabulary is correspondingly reasonable. Students are already familiar with at least some representative annelids, but are generally surprised and intrigued by the variety of body plans and by the variety and complexity of life-styles encountered within the phylum. The animals are decidedly forgiving of poor dissection technique and provide an

excellent opportunity to learn how to use microscopes, conduct a careful dissection and make good laboratory drawings. They also provide an excellent vehicle for introducing basic principles of hydrostatic skeletal operation and locomotory mechanics.

From annelids we move through the other protostome groups and then take on the deuterostomes. Then we work our way backwards through the pseudocoelomate and acoelomate phyla, ending with sponges and protozoans. Phylogenetic issues are easily dealt with, only now we have the luxury of referring back to familiar coelomate territory for comparison. This approach seems to do a fine job of engaging the students without reducing course rigor.

Enrollment has increased pretty much every semester since I began teaching the course this way. I attribute the increased enrollment to the structure of the course rather than to any special talent on my part; given a chance, I think, the animals themselves soon win the students over.

Message From the Secretary

Donna Wolcott

Perhaps you are feeling smug because you could identify the organism that decorates our division newsletter masthead. But, can you fathom **why** it is featured for this issue? (The answer is found in the Meetings section). Masthead artwork comes from *Biology of the Invertebrates* (Jan Pechenik, 2nd ed.), *The Living Invertebrates* (Pearse/Buchsbaum, 1987), *The Invertebrates: a new synthesis* (Barnes, Calow and Olive, 1988) and *A Guide to Marine Coastal Plankton and Marine Invertebrate Larvae* (Deboyd Smith, 1977).

There will be a Great Invertebrate Zoologist biography in the fall newsletter. Be prepared to be contacted for providing material for future newsletters. (Those of you who have been contacted previously by Clay Cook and others: why not just get the agony over and volunteer for spring 1996)? I would like to encourage you, while you are thinking about symposia for future meetings, to consider topics that cross

disciplinary boundaries. The divisions in ASZ cover a tremendous spectrum and we invite you to jump into the cracks between them. If we can co-sponsor at least one symposium at each annual meeting, in addition to sponsoring essential topics of interest only to the truly enlightened who have been "won over by the animals" (see the Teacher's Corner above), it will facilitate communication between divisions, something I promised to encourage as secretary.

My thanks to Clay Cook for easing my transition into the position of division secretary. His careful documentation and useful tips on finding information and help have been invaluable. I am especially indebted for his continuing excellent performance as secretary during the St. Louis meetings in my absence and providing minutes.

Message From the Program Officer

Jon Norenburg

All three of the DIZ-cosponsored symposia at St. Louis appeared to be highly successful and drew many participants who are not regulars at ASZ meetings. "Molecular Approaches to Zoology and Evolution," organized by Joan Ferraris and Steve Palumbi, was a huge success. Many of us camped out and became intimately familiar with St. Louis Salon E over the course of three days. Even if you were mostly interested in other venues, one could always wander into this symposium and be treated to a few tasty morsels.

"Biology, Ecology, and Physiology of Zebra Mussels," organized by Robert McMahon and Jeffrey Ram, spilled over into an abundance of zebra mussel presentations in contributed paper and poster sessions. I was surprised at the quantity of zebra mussel research being conducted. The expansion rate of *Dreissena* appears to be closely paralleled by co-evolving zoologists.

"Feeding Biodynamics," organized by Richard Tankersley and J. Evan Ward, provided plenty of stimulation for the action-oriented. The organizers deserve a round of "well done" for their pluck and persistence in organizing this symposium on a very short time schedule!

The Washington, D.C. meeting in 1995 begins the Smithsonian Institution's 150th Anniversary celebration. We expect that there will be some special events associated with this fact. At present, DIZ is co-sponsor for two symposia planned for the D.C. meeting: *Frontiers in Barnacle Science*, organized by Fred Schram and Jens Hoeg; and *Phylogenetic Systematics, Biogeography, and Marine Biodiversity*, organized by Lynne Parenti and Jon Norenburg.

We can accommodate at least one more significantly invertebrate-flavored symposium or workshop. It is late for seeking funding from NSF, but D.C. promises to be enough of a draw that many speakers will attend without support. Successful symposia don't need to be multi-day affairs; even a half-day symposium or workshop can be very effective. Send me an E-mail if you would like to discuss an idea. We are now soliciting ideas and proposals for the '96 Albuquerque meeting (or even farther ahead, if you are so inclined).

Other Meetings of Invertebrate Interest:

Fourth International Conference on Nemertean Biology
14-19 July 1995, Asilomar Conference Center, California.
Deadline for early registration: 1 April 1995. For information or reserving a proceedings volume (~\$60) contact co-conveners Jon Norenburg (soss001@sivm.si.edu) or Pam Roe (pam@chem.csustan.edu).

7th International Congress on Invertebrate Reproduction

5-11 August 1995 at University of California, Santa Cruz; John Pearse and Hans Laufer, co-conveners. Deadline for abstracts and early registration: 1 May 1995. For information, contact: 7th ICIR, Institute of Marine Sciences, University of California, Santa Cruz; Santa Cruz, CA 95064 Tel. 408/459-2455 Fax: 408/459-4882 E-mail: pearse@biology.ucsc.edu.

Best Student Paper Award

The high quality of student papers at the St. Louis ASZ meeting resulted in the granting of two Best Student Paper Awards. Each winner will receive \$100 and a certificate. The recipients are: Jennifer E. Frick, Clemson University, "Transport of Nutrients from Adult to Brooded Young in *Synaptula hydriformis* (Echinodermata)" and Elizabeth E. LeClair, University of Chicago, "Morphological dichotomy

of brittle star arm ossicles (Echinodermata, Ophiuroidea): taxonomic and phylogenetic implications."

Jennifer was also the recipient of the DIZ's Libbie Hyman award in 1993 for summer course work at the Darling Marine Center in Maine.

Minutes of the DIZ Divisional Meeting

Clay Cook

The 1994 DIZ Divisional meeting was called to order on Jan. 6, 1995 by Chair Jim Carlton at 5:08 p.m. and the minutes of the 1993 meeting were approved as published in the Spring '94 Newsletter.

Remarks from the Chair: Jim Carlton opened his remarks by announcing that Donna Wolcott was elected Secretary of DIZ. Her term will run from 1995 through 1997. The Division again has funds for The Libbie H. Hyman award, to support a student at a field station or marine laboratory during the summer. DIZ co-sponsored three symposia at the St. Louis meeting ("Biology, Ecology and Physiology of Zebra Mussels," "Molecular Approaches to Systematics and Evolution," and "Feeding Biodynamics of Invertebrates"). The Best Student Paper Award will be given again at this meeting. Co-Chair Bill Kier will organize this for absent Chair Marilyn Switzer-Dunlap.

Jim then reviewed the ASZ Executive Committee meeting and noted the discussions about possible changes in the name and scope of *American Zoologist* and the Society itself. This is a critical time of decision for ASZ and members who have concerns about these and other Society matters should write or E-mail ASZ President Mike Hadfield. The major problem facing the Society, as discussed elsewhere in the newsletter, is the continuing decline in membership and Jim asked that each one of us try to recruit at least one member. Daphne Fautin asked if anyone has inquired about international membership, in terms of loss or recruiting. Jim said this should be checked. One change in venue is the time and place of the 1997 meeting, originally slated for Philadelphia. Both the time and place of the meeting are now open; the December '95 (Washington, D.C.) and '96 (Albuquerque) meeting will take place as scheduled.

Officers' Reports: **Program Officer:** Jon Norenburg reiterated the need to coordinate the planning of symposia with him. He also expressed the need for more coordination of the meeting program between ASZ Program Officers and the Chicago office. Two cases of conflict at the St. Louis meeting affected DIZ: the scheduling of Contributed Paper sessions for DIZ and the American Microscopical Society (AMS) at the same time and the simultaneous scheduling of

the Zebra Mussel Symposium with a DIZ Contributed Paper session on the same topic. Jim Carlton noted that divisional funds could be used to help sponsor DIZ symposia and that it is possible to arrange symposia without support from external sources such as NSF.

Secretary: Clay Cook reported that the deadlines for submission of materials to Donna Wolcott for inclusion in the newsletters will be March 1 (Spring) and September 1 (Fall).

Graduate Student/Postdoctoral Representative: Ladd Johnson reported that for the first time "First-Timers" were so recognized at ASZ meetings. More effort is needed to integrate them into meeting activities and other members should make more of an attempt to make them feel comfortable. There were some problems with the coordination of the First-Timer Program at the meeting; improvements will be made to this useful program.

Education Council Representative: Sue Cook (Chair) briefly summarized the goals of the new Council and asked for input from the Division. DIZ Chair-Elect is giving a Workshop at the Meeting entitled "How to Write a Scientific Paper." Sue noted that the division needs to appoint a representative to the Public Affairs Committee.

Invertebrate Biology: Editor Vicki Pearse reported on the status of the newly launched *AMS/DIZ* journal. In the first nine months she received 51 manuscripts covering half of the invertebrate phyla. The first issue will be sent out later this month; a mock-up is on display at the AMS booth in the Exhibit Hall. She urged DIZ members to support the journal by joining AMS. A straw vote indicated that more than half of the members at the meeting had already done so. More of an effort is needed to reach DIZ members who did not attend the meeting.

Other Announcements: Rick Harrison announced that he is the new editor of the *Journal of Morphology*, replacing Carl Gans. All manuscripts and editorial questions should be

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addressed to him. He reminded members of the meeting of AMS and the Association of Southeastern Biologists (Knoxville, TN; April 19-21, 1995) which will include contributed paper sessions on invertebrates. Anyone interested in giving a paper should contact him at 704/227-7244.

Jim Carlton then reviewed some ideas that the Division should consider, two of which would involve bylaws changes: (1) extending the Chair's term to three years rather than two, as has already been done for the ASZ Presidency (Jim noted that currently the first duty of a new DIZ Chair is to arrange for his/her successor); and (2) holding elections for DIZ officers in the Spring rather than the Fall. Among other advantages, this would allow newly elected officers to better plan for their first meeting. The alliance between DIZ and AMS needs to be strengthened. One step in this direction is the publication of DIZ symposia in *Invertebrate Biology*; papers from the DIZ Symposium on the Biodynamics of Invertebrate Feeding will be published in the new journal.

The new ASZ Gopher on the Internet would provide DIZ members with access to information such as a listing ("road map") of invertebrate zoology texts, manuals, faunal guides and checklists. The National Research Council has set February 16 as the deadline for the Marine Biodiversity Research Agenda, with which Jim will be involved. In this theme Jim noted that NSF expects proposals to specifically budget for taxonomic work when needed and repeated the need for studies of invertebrate conservation in all environments. He ended his general comments by decrying what he saw as the lack of coastal exploration by those who should be most involved — us. As our time is increasingly taken up with other duties, we are taken away from the field experience. He cited as examples the reports of immigrant marine invertebrate species into North America by non-professionals. With these comments, Jim handed over the symbolic gavel ["putative pleopod?" — CBC's term] to incoming Chair Jan Pechenik. Ladd Johnson expressed the division's gratitude to Jim for all of his work during the past two years. The meeting was adjourned at 5:50 p.m. and was followed by a joint social between DIZ and AMS.

Update on the Journal, *Invertebrate Biology* (Continuing Transactions of the American Microscopical Society):

The first issue is now out and subscribers among you will have received it. For those who are not yet members of AMS, it's not too late: if you join now, you can still receive all four issues for 1995. To subscribe, send AMS membership dues of just \$24/year to: American Microscopical Society, P.O. Box 1897, Lawrence, KS 66044-8897.

Do you have a special paper for which you haven't yet thought of quite the right journal? Published by AMS in cooperation with DIZ, this new quarterly promises to be an excellent channel for publications on invertebrates. Besides the major change in content — the journal now includes research papers exclusively on the biology of invertebrates (and not necessarily microscopical) — changes from the *Transactions* include a colorful new cover and larger format (8.5" x 11"), with even higher-quality reproduction of micrographs and other illustrations. Ask the editor for a

copy of the Instructions to Authors or see the inside back cover of the first issue.

The journal will print announcements of invertebrate meetings and field courses in its final few pages on a space-available basis. That is, space cannot be guaranteed in any particular issue, but the service is free and intended to promote research on and interest in invertebrates. If you wish to announce an event, send two double-spaced hard copies and diskette. Professional-quality camera-ready copy, with artwork, etc. can also be used. For information, contact the editor:

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Summer Courses

Although the deadline for applying for most summer courses is past, here are a few courses for those students still seeking summer input:

Shoals Marine Laboratory

Field Marine Science May 29-June 26; July 24-August 21; Ocean Measurement Lab May 29-June 12; Coastal Ecology and Bioclimates June 12-26; Introduction to Field Marine Science (for non biology majors) May 17-31; Ciliophorology June 26-July 3; Ecology of Animal Behavior July 10-24; Neurobiology of Animal Behavior July 10-24; Adaptations of Marine Organisms July 3-24; Marine Biology for Teachers July 10-24; Wetlands Resources July 24-31; Coastal and Oceanic Law and Policy July 31-August 7; Marine Pollution August 7-21; Underwater Research July 24-August 7; Archaeology Underwater August 14-21; Marine and Coastal Geology Aug 14-21; Biological Illustration August 14-21. For further information write, call or E-mail: Shoals Marine Laboratory, G-14-E Stimson Hall, Cornell University, Ithaca, NY 14853-7101; 607/255-3717
Shoals-Lab@cornell.edu.

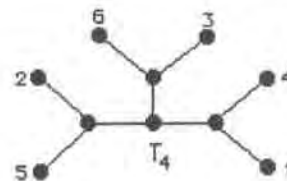
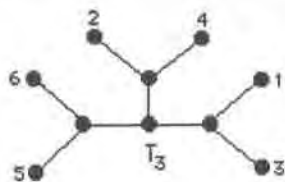
Louisiana Universities Marine Consortium (LUMCON)

Summer field courses and directed research projects for undergraduate and graduate credit during its 1995 Summer Program in Marine Science. Courses include: Introduction

to Marine Zoology (4 weeks); Mariculture (4 weeks); Marine Ecology (4 weeks); Marine Invertebrate Zoology (4 weeks); Marine Vertebrate Zoology (4 weeks); Wetland Biogeochemistry (1 week); Wetland Loss, Restoration, and Management (1 week); Wetland Vegetation (2 weeks); and Wetland Wildlife Management (1 week).

Internship program in marine science, education and technology. This program will afford students the opportunity to gain experience for university credit in a discipline of their choice by working closely with research faculty, senior academic staff or other appropriate staff members at the Marine Center for Research and Education in Cocodrie, Louisiana. Projects are arranged by consultation between the student, the University Education Coordinator and the supervising faculty or staff member. They will be designed to afford a maximum flexibility in order to fit the needs and schedules of students and advisors.

Room and board fees are \$125/week and limited scholarships are available to qualified applicants to help defray these costs. Inquiries and requests for applications for admission and scholarships should be directed to Dr. John H. Caruso, LUMCON Marine Center, 8124 Highway 56, Chauvin, LA 70344-2124; Receptionist: 504/851-2800; fax: 851-2874; E-mail: jcaruso@smtgw.lumcon.edu



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Message From the Chair

Lynne R. Parenti

One effort of the Division of Systematic Zoology during the past few years has been to define its unique role within the Society. At times, we have struggled. Surely, one goal must be to demonstrate the fundamental importance of systematics in all biology. We have been successful in that effort principally by sponsoring or co-sponsoring symposia with a central systematics theme. We continue in this role as we finalize program and publication plans for our December 1995, Washington, D.C. symposium, co-sponsored with DIZ, entitled "Phylogenetic Systematics, Biogeography and Marine Biodiversity." The division should strive to have at least one symposium or contributed paper session at each annual meeting co-sponsored with another ASZ division and rotate co-sponsorship through the divisions year by year. DSZ members were inspired by the prominence of systematic theory and application in several well-attended symposia at St. Louis. It is clear that much of the theory and many of the tools, principally phylogenetic systematic and biogeographic computer programs, used regularly by systematic biologists are being adopted by a wide range of ASZ members.

Our Secretary, Stan Rice, has begun in this issue what I hope will be a useful service function of our newsletter pages: notice of recent reviews and releases of current versions of these programs. We also have plans underway to have some of these programs available for demonstration at the 1995 Washington meeting, schedules of demonstrators permitting.

I am grateful for the continued dedication of many ASZ members to our division. We all owe a debt of gratitude to Peter Wainwright, who has just ended his term as program officer, for encouraging the organization of many of our recent symposia. Thanks, Peter! I also thank Hugh Griffiths for serving as our representative to the Graduate Student and Postdoctoral Affairs Committee. Tomas Hrbek, a graduate student at Washington University, St. Louis and killifish enthusiast (OK, I'm biased) has agreed to be our representative to that committee for a three-year term (1995-1997). To ensure overlap among officers, elections for our division and others, are being held in the Spring, rather than the Fall as in the past. Our tireless Nominating Committee (Daphne Fautin, Chair, Peter Wainwright and Miriam Zelditch) has assembled an outstanding slate of candidates for the offices of Chair-elect (Carole Hickman and Brad Shaffer), Secretary-elect (Dominique Didier and Judith Winston) and Program Officer (Kurt Schwenk and Jackie Webb). The division can reach its goals only by having a group of dedicated ASZ members who are willing to promote systematics throughout the Society. Who now could doubt that we will flourish?

Minutes of the Business Meeting—Division of Systematic Zoology

The meeting was called to order on January 7, 1995 in St. Louis, at 5:00 p.m. by Lynne Parenti, Chair. The minutes of the 1993 Business Meeting in Los Angeles were approved as published in the Spring 1994 ASZ Newsletter. Lynne reviewed some of the issues that had been raised and discussed at the Executive Committee, ASZ Business Meeting and Division Chairs meetings. These included: 1) Society membership has dropped significantly over the past 8 to 10 years. We need to continue and expand our personal recruiting efforts with an emphasis toward promotion of the diversity of our Society and the benefits of membership. 2) The results of the meeting questionnaire will be critical in planning future activities of the Society. Many issues such as timing and location of the annual meeting, name of the Society, name and content of our Journal and internal division structure of the society are all being evaluated. 3) Wiley-Liss plans to publish a semi-popular magazine on "integrative biology" that could become an important avenue for promotion of the Society and its activities. 4) A new Division has been organized within ASZ, the Division of Neurobiology, with the intent of attracting some of our colleagues, many of whom are comparative neuroanatomists, who may have drifted off to other organizations. 5) ASZ is continuing to expand its presence in the electronic media. For example, a World Wide Web site has been established for ASZ. 6) The previous financial problems of the Society

have been overcome in a shorter time than anticipated for three reasons: size of the deficit was overestimated, subscription rate of *American Zoologist* to libraries was raised and contributions/assessments from members totaled over \$100,000.

The Division budget for 1995 will be \$2,000 plus \$1 per primary member of DSZ. These funds will be used to support symposia of interest to the membership. The 1994 budget was used to co-sponsor the Symposia: "Historical Patterns of Development Integration" and "Phylogenies and Comparative Biology State II: Testing Hypotheses Derived from Phylogenies".

Lynne thanked Peter Wainwright for his outstanding efforts as Program Officer for the Division during his prolonged term of office. She announced that a nominating committee had been formed to identify candidates to stand for election as Division Officers. The names and brief biographies of candidates will appear in the Spring Newsletter from now on so that elected officers may begin to prepare for their upcoming terms at the annual meeting.

The meeting was adjourned at 5:30 p.m. (so that Marvalee could watch the end of the Forty-Niners football game).

Computer Programs for Phylogenetic Studies

Like any piece of software that you might be interested in using, it becomes necessary to invest some time and energy in phylogenetic programs before you can begin to receive answers to your questions. The first step of course, is to decide which program has the appropriate capabilities for the type of data you have and the type of questions you are asking. This information is not always easy to obtain. Occasionally, reviews appear in the popular or scientific literature that can help you find the proper programs. Such reviews have appeared in the journal *Cladistics* recently (1993, 9:351-353 & 355-356; 1994, 10:85-95). My hope is that the DSZ Newsletter or some other vehicle (like an

internet forum) may serve to help researchers in their quest for the proper programs and provide answers to specific questions, either operational or theoretical, from experienced users. The following information has been compiled from the above reviews and from other sources. It is not intended to be a comprehensive assessment of phylogenetic programs, but rather a trial balloon to see if anyone out there is interested in this type of information. I apologize for any omissions due to my ignorance and I hope that you will send me information that you feel would be valuable to other workers. Please send information on the programs

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Computer Programs for Phylogenetic Studies

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below for which I have little experience or information. Send E-mail comments to: stan.rice@resnet.fmhi.usf.edu

MacClade: Analysis of Phylogeny and Character Evolution. W.P. Maddison and D.R. Maddison, 1992. Available from Sinauer Associates, Sunderland, MA. Version 3.03. This program was specifically designed for use on the Macintosh computer and takes advantage of the user-friendly aspects of this system. The MacClade package comes with a documentation manual and the program. The manual is nearly 400 pages, nicely bound in paperback and contains several chapters on phylogenetic theory for those who are still on the steep part of their learning curve. The program plus on-line help and examples takes up about 2 mb of hard drive space. The stated purpose of MacClade is to ".... present methods for analyzing and exploring phylogenetic hypotheses, including hypotheses about character evolution." MacClade can analyze morphological as well as molecular data and is compatible with files from PAUP 3.0, PHYLIP 3.3, CLADOS 1.2, Hennig86 1.5 and NBRF (National Biomedical Research Foundation) format. Instructions for using other programs' files are included in the manual. Tracing character evolution is often cited as a strong point of MacClade. See *Cladistics* 10: 87-95, 1994 for review.

Hennig86. J.S. Farris, 1988. Port Jefferson Station, NY. Version 1.5

CLADOS, Version 1.2 and DADA, Version 0.85. K. C. Nixon, 1992-3. Trumansburg, NY.

PAUP: Phylogenetic Analysis Using Parsimony. D.L. Swofford, 1993. Illinois Natural History Survey, Champaign, IL 61820. Version 3.1. This program is designed for inferring phylogenies from discrete-character data under the principle of maximum parsimony. Version 3 of PAUP was

designed to allow convenient file transfer between programs that read the NEXUS file format. PAUP has numerous search options for finding the most parsimonious trees and for outputting these cladograms. The program comes with a 257-page manual that contains background information as well as specific instructions on program operation.

PHYLIP: Phylogeny Inference Package. J. Felsenstein, 1991. Department of Genetics, University of Washington, Seattle, WA 98195. Version 3.5. PHYLIP is a free package of 31 programs that are designed for inferring phylogenies from molecular data, continuous and discrete character data, distance matrix data and for plotting trees or calculating consensus trees. PHYLIP is available via internet. Contact: evolution.genetics.washington.edu (128.95.12.41) for details on downloading these programs or E-mail to: joe@genetics.washington.edu for details.

MEGA: Molecular Evolutionary Genetics Analysis. S. Kumar, K. Tamura, and M. Nei, 1993. Pennsylvania State University, University Park. PA Version 1.01. A program for analyzing sequence data on IBM PC's and compatibles, MEGA can find trees by parsimony or from a variety of distance measures. See *Cladistics* 10:85-87, 1994 for review.

COMPONENT. R.D.M. Page, 1993. Natural History Museum, London. Version 2.0. A program for comparing phylogenetic trees generated from other sources. Trees in NEXUS file format (as in PAUP and MacClade) can be input and compared via consensus calculations, similarity measures or mapping one tree onto another. The program runs under Microsoft Windows 3.0 or later on the IBM PC or compatibles and 2 mb RAM and a hard drive. See *Cladistics* 9:351-353 for review.

WSAP: Wisconsin Sequence Analysis Package. Genetics Computer Group, 1995. Version 8.0. This program is designed to analyze DNA and protein sequence data and to search sequence databases. The program can predict and display phylogenetic trees based upon these data. See *Science* 267:120, 1995 for information.

Election of Officers—Division of Systematic Zoology

Candidates for Chair:

H. Bradley Shaffer

Degrees: B.A., Univ. of Calif., Berkeley; Ph.D. Univ. of Chicago

Current Position: Professor, Section of Evolution and Ecology, Univ. of Calif., Davis.

Research Interests: Morphological and molecular evolution and systematics of amphibians and reptiles; quantitative genetics of salamander metamorphosis.

ASZ and Related Activities: American Society of Ichthyologists and Herpetologists: Board of Governors (1984-1989). Society of Systematic Biology: Council Member (1990). Molecular Systematics and Evolution, Herpetologica, Assoc. Editor. Evolution: Associate Editor (1991-1993). National Science Foundation: Panel Member, Population Biology (1992, 1993, 1994). North Cascades National Park Research Review Panel (1993). Herpetological Conservation: Editorial Board (1994-). Declining Amphibian Task Force Member: California/Nevada Workgroup & National Workgroup. NBS Workgroup to Develop a National Amphibian Monitoring System Member (1994).

Carole Hickman

Degrees: B.A., Oberlin College; M.S., Univ. of Oregon; Ph.D., Stanford Univ.

Current Position: Professor, Univ. of Calif., Berkeley; Curator, Museum of Paleontology, Univ. of Calif., Berkeley; Research Associate, Dept. of Paleontology, Los Angeles County Museum of Natural History.

Research Interests: Molluscan systematics, evolution, and paleontology; analysis of form, structure, and function; definition of unconventional character sets, use of functional and developmental data in systematics; comparative analysis of molluscan larval development and metamorphosis.

ASZ and Related Activities: AAAS (Fellow), American Malacological Union (Past President), American Society of Zoologists, California Academy of Sciences (Fellow), California Malacozoological Society (Trustee, Executive Board), Geological Society of America (Fellow, Past Assoc. Editor, GSA Bulletin), History of Earth Sciences Society, International Paleontological Association, Rocky Mountain Biological Laboratory (Life Member), Malacological

Society of Australia, Malacological Society of London, Paleontological Research Association (Life Member), Paleontological Society (Past President, Pacific Coast Section), Society for the Study of Evolution (Past Assoc. Editor), Society of Economic Paleontologists and Mineralogists, Society of Sigma Xi, Unitas Malacologia, Western Society of Malacologists.

Goals Statement: Modern systematics sometimes fall short of asserting its central role in integrative and comparative biology. Although ASZ is not the primary home of most phylogenetic systematists, it is the premier society for promoting a unified framework for characterizing, analyzing, and protecting biological diversity. Diversity includes not only diversity of taxa, but also diversity of structure and function. I view DSZ as playing an increasingly vital role in our Society by promoting comparative and integrative links to all of the other divisions. I view DSZ as playing an increasingly vital role outside of ASZ by promoting strong activism with respect to the research, training, archival, and conservation roles of systematic biology.

Candidates for Program Officer:

Kurt Schwenk

Degrees: A.B. Oberlin College; Ph.D. Univ. of Calif., Berkeley.

Current Position: Associate Professor, Department of Ecology and Evolutionary Biology, Univ. of Connecticut (Storrs).

Research Interests: Form, function, and evolution of the squamate reptile hyolingual apparatus; evolutionary and functional morphology of salamanders, caecilians, and mammals.

ASZ and Related Activities: American Society of Zoologists: Chairman, D. Dwight Davis Award Committee; Member, Division of Vertebrate Zoology Nominating Committee. International Congress of Vertebrate Morphology IV: Editorial Committee.

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Election of Officers

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Jacqueline F. Webb

Degrees: B.S., Cornell Univ.; Ph.D., Boston Univ.

Current Position: Assistant Professor, Villanova Univ.

Research Interests: Development and evolution of the mechanosensory lateral line system in fishes.

ASZ and Related Activities: American Society of Ichthyologists and Herpetologists: Judge, Stoye Award (1989, 1992), Judge, Raney Award (1991), Chairman, Raney Award Committee (1992). American Society of Zoologists: Judge, Dwight Davis Award (1989), Graduate Student and Post-Doctoral Affairs Committee (1993). International Congress of Vertebrate Morphology: Editorial Committee (1993-1994).

Candidates for Secretary:

Dominique Didier

Degrees: B.A., Illinois Wesleyan Univ., Ph.D., Univ. of Massachusetts (Amherst).

Current Position: Assistant Curator of Ichthyology, Academy of Natural Sciences, Philadelphia

Research Interests: Evolution and systematics of chimaeroid fishes and other chondrichthyans, comparative embryology of chondrichthyans, evolution of the vertebrate head.

ASZ and Related Activities: Assistant Editor, Chondros; Deputy Vice-Chair for Chimaeras, IUCN Shark Specialist Group; President, Sigma Xi, ANSP Chapter.

Goals Statement: Although most members of the American Society of Zoologists do not see their primary affiliation with the Systematics Division, systematics is truly the base upon which all other research is built. Rather than dismay at not seeing a poster session or symposium dedicated to systematics, I am encouraged by the fact that systematics is the one discipline that crosses the boundaries of all divisions of the ASZ. As a division, our goal in the next years will be to emphasize the key role that systematics plays in basic biological research through continued association with all of the other divisions of ASZ. ASZ is changing, even our name is changing, and we need to use this opportunity to re-identify our role in ASZ as not just a separate division, but as

the unifying principle of ASZ. This will be accomplished through collaboration with other divisions, particularly in organizing symposia; raising the awareness of systematics in all divisions by providing opportunities to students in the form of organized discussions and awards for systematic work; and lastly, by informing ASZ members of the activities within the systematics community through contributions to our newsletter. Communications should be our most immediate concern right now and as secretary, the communication of systematics activities and identifying the role of systematics in the ASZ will be my primary goal.

Judith E. Winston

Degrees: A.B., Brown Univ., Ph.D. Univ. of Chicago.

Current Position: Research Associate, Department of Invertebrates, American Museum of Natural History, New York, and Director of Research and Collections, Virginia Museum of Natural History, Martinsville.

Research Interests: Marine biodiversity, bryozoan systematics, ecology and evolution of colonial organisms, taxonomic procedures and nomenclature.

ASZ and Related Activities: American Society of Zoologists: Symposium Co-organizer, Life and Work of Libbie Hyman, Hyman Scholarship Committee; Proposal reviewer for: National Science Foundation, American Philosophical Society, Petroleum Research Council, N.E.R.C.; Manuscript reviewer for: Biological Bulletin, Bulletin of Marine Science, Canadian Journal of Zoology, Hydrobiologia, Invertebrate Taxonomy, Journal of Experimental Marine Biology and Ecology, Journal of Natural History, Marine Ecology, Polar Biology; Consulting Editor: The Audubon Society Field Guide to Seashore Creatures; Advisor to: Columbia Encyclopedia, National Cancer Institute, CUNY Ecology, Evolutionary Biology and Behavior Subprogram; Organizer or Participant in 11 symposia.

Goals Statement: To serve as a liaison between academic, museum, and conservation communities, making the expertise of DSZ members available to those groups. Through the DSZ Newsletter to present positive examples of the importance of systematics to biology and earth's future, and to make zoologists aware of training, teaching, and research funding opportunities as they arise.



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Message From the Chair

Sharon Emerson

The International Congress of Vertebrate Morphology and the recent ASZ meeting in St. Louis make it clear that vertebrate morphology is in an exciting growth phase. Both meetings saw large numbers of students presenting papers and there were many new intellectual connections being reported across traditional research fields.

These two themes will be further highlighted at the upcoming Washington D.C. meetings as George Lauder and John Long are putting together an interdisciplinary symposium entitled "New Approaches in Aquatic Locomotion." The symposium will feature talks by young researchers, including advanced graduate students, postdocs and assistant professors, but more on that in the next newsletter.

In another area related to younger researchers and presentations, I want to remind you that we voted at the business meeting in St. Louis that in the future, only presentations that are single-authored by a student will be eligible for the student prizes. This new ruling will go into effect at the Washington, D.C. meetings.

Speaking of student presentations, congratulations to Bret Tobalske who won the Davis Prize for the best student oral presentation and also to Elizabeth Jockusch who received honorable mention and Karen Reiss who was awarded the best poster prize.

One of the pleasures of the DVM is that members are enthusiastic, dedicated and willing to contribute. My thanks to those of you who have served on the various division committees: Davis Prize: Sharon Swartz, Dave Carrier and Kiisa Nishikawa; Poster Prize: Ken Dial and Marvalee Wake; ASZ nominating committee: George Lauder; DVM nominating committee: Ken Dial, Sharon Schwartz, and Jim Stewart. Last but not least, Jim Hanken deserves special mention for the great job he has done as Division Chair. He is a tough act to follow.

While DVM is relatively healthy, the ASZ continues to lose membership. In closing I would urge each of you to make a special effort to seek new members and to develop creative ideas that could be put into practice to infuse the whole society with the energy and vitality of the DVM.

Minutes of the Annual DVM Business Meeting

The meeting was called to order in St. Louis, at 5:00 p.m., 5 January 1995. The meeting was chaired by Jim Hanken. The minutes were recorded by Frank Fish.

Announcements:

Philip Ulinski was elected as Chair-elect for the DVM. Thanks were given to the Nominating Committee (George Lauder, Chair, Kiisa Nishikawa and Tom Hetherington) for their work. Alice Gibb was the previous winner for the Best Student Paper at the Los Angeles meeting. This year 19 candidates were in competition for oral presentations and three candidates were being judged for their poster presentations. The judging committee for oral presentations consists of Dave Carrier, Kiisa Nishikawa and Sharon Swartz. Posters were to be judged by Marvalee Wake and Ken Dial. DVM members were reminded to attend the Bartholomew Award presentation by Peter Wainwright. A new person from DVM is needed to serve on the Graduate Student/Postdoc Committee. (Editor's Note: Adam Summers has volunteered to be DVM's representative. Adam may be reached at the Univ. of Massachusetts-Amherst, Dept. of Biology, Amherst, MA 01002; Tel. 413-545-1863; E-mail: summers@bio.umass.edu). Contributions of \$220 were made to the Davis Fund.

Candidates will be sought for the positions of DVM Program Officer and Secretary. (See Election sections on pages 44 and 45).

Submissions are being accepted for a new division logo.

Dave Vleck presented an NSF update. Funding is at approximately 20 percent in the Ecological and Evolutionary Physiology Program. Average grants are \$60,000-\$80,000 per year.

The *Journal of Morphology* will have a new editor, Dr. Fred Harrison. Dr. Harrison has a background in invertebrate histology and in human gross anatomy. Although Carl Gans will be stepping down as editor, he will continue to handle manuscripts submitted in 1994. Appreciation was expressed to Dr. Gans for his service as the editor of the *Journal of Morphology*. Ideas for symposia for the 1995 ASZ meeting were requested. (Editor's Note: Since the business meeting, George Lauder and John Long have begun planning a symposium on aquatic propulsion for the 1995 ASZ meeting in Washington D.C.)

Program Officer's Report

Mark Westneat

1. The number of abstracts for the DVM has varied with 96 for Vancouver, 63 for Los Angeles and 78 for this year.
2. The idea has been discussed of combining contributed paper sessions with other divisions of the ASZ.
3. DVM is sponsoring three symposia this year: "Phylogenies and Comparative Biology," arranged by J. B. Losos; "Historical Patterns of Developmental Integration," arranged by M. L. Zelditch; and "Molecular Approaches to Zoology and Evolution," arranged by J. D. Ferraris.
4. Ideas for symposia are needed. Stuart Sumida has suggested a symposium on "Anatomical Structure and the Arts: Interaction, Scientific Benefit and Artistic Creativity."
5. \$2,000 is available for divisional symposia.

Secretary's Report

Frank Fish

1. Secretaries from all the divisions had not met before the DVM business meeting.
2. Attendees of the business meeting were generally satisfied with the new format of the newsletters.
3. A request was made for a new division logo.
4. New deadlines for the newsletter are March 14 for the Spring and September 18 for the Fall.

Chair's Report

Jim Hanken

1. The finances of ASZ are good. The ASZ is now running a surplus which is being used to restore the endowment, to establish an emergency reserve fund and to fund symposia.
 2. There is a decline in the membership of the ASZ.
 3. Changes have been suggested such as overhauling the *American Zoologist* to include original manuscripts and reviews. In addition, discussions have begun on linking the journal to a commercial publisher. The possibility was discussed also to sponsor a new journal in integrative biology.
 4. The new Division of Neurobiology was established.
 5. Consideration is being given to changing the timing of the meeting.
 6. There was consideration of changing the Society's name.
 7. DVM budget was restored last year to \$1,500 for which \$100 was used for the poster prize, \$400 for ICVM and \$1,000 for symposia. This year, DVM received \$2,000 of which \$1,500 was used for symposia. DVM's allocation 1995 will be a \$2,000 base with \$1 for each division member totaling \$2,400. The poster prize will receive \$100 from the 1995 allocation. A request for support to conduct a workshop on scientific writing was brought forth.
- Motion** - To allocate \$100 from the 1995 divisional budget to support the scientific writing workshop. Motion seconded and passed.
- Motion** - To allocate \$300 from the 1995 divisional budget to support the Northeast regional meeting. Motion seconded and passed.
- Motion** - To allocate \$1,900 from the 1995 divisional budget to support symposia. Motion seconded and passed.
8. DVM will move its elections to the Spring with the results published in the Fall newsletter.
 9. The question was asked whether advisors should be listed on papers of students seeking DVM awards.
Motion - Restrict competition for awards only to single authored papers. Motion seconded and passed. This will represent a change in the bylaws.
- Sharon Emerson ascended to the position of Chair of the DVM. Power was transferred from Jim Hanken without the need for political contracts or peace-keeping troops.
- The meeting was adjourned at 6:00 p.m.

Message From the Program Officer

Mark Westneat

Thanks to all the speakers and symposium organizers at the St. Louis meeting in January. DVM was a co-sponsor of three of the symposia (*Molecular Approaches to Zoology*, *Historical Patterns of Developmental Integration*, and *Phylogenies and Comparative Biology*). From all reports, these symposia were successful and well attended. DVM members can feel good that we used our resources to support a diversity of important ideas in comparative biology. For the upcoming meeting in Washington, D.C. we have one symposium that is being prepared at this time. John Long and George Lauder are organizing a symposium on aquatic locomotion. There is likely to be a contributed paper session that is associated with this symposium so as to allow student speakers to enter their talks for the Davis Award and still be part of the proceedings.

A change was made in the qualifications for students competing for the D. Dwight Davis Award for best student paper. After a short period of discussion, DVM members present at the business meeting voted to allow only papers that are single-authored by the competing student to qualify as entrants to the award competition.

In other programmatic news, all DVM members who attended the Bowling Party at the Bowling Hall of Fame in St. Louis will join me in a round of applause for Ernie Wu for organizing another ASZ social event that will live in memory (and infamy) for years to come.

Logo Update

Frank Fish

The DVM is looking for a new logo. If you have a logo for the division, please forward it to Frank Fish. Each logo will be presented at the ASZ meeting in Washington D.C. at the

DVM business meeting. At present, Alice Gibb has submitted two drawings for consideration.

Student Prizes in Vertebrate Morphology

The judging committee (Dave Carrier, Chair, Kiisa Nishikawa and Sharon Swartz) for the Student Prize in Vertebrate Morphology is happy to announce the winner of the Davis Prize for the St. Louis meeting as Bret Tobalske (Univ. of Montana). His oral presentation was on "*The scaling of intermittent flight behavior and wing morphology in woodpeckers*." The prize is an award certificate, \$100 cash and \$100 worth of books from University of Chicago Press.

Davis prize honorable mention goes to Elizabeth Jockusch (Univ. of Calif., Berkeley) for "*The effects of genome size on developmental time in plethodonid salamanders*."

The judging committee (Marvalee Wake, Chair and Ken Dial) for the Best Student Poster in Vertebrate Morphology is pleased to award the prize to Karen Reiss (Cornell Univ.) for "*The myology of the palate and pharynx in myrmecophagid anteaters*." Karen will receive an award certificate, \$100 cash and \$100 worth of books from University of Chicago Press.

Due to action taken at the annual business meeting, only single authored papers will be accepted for competition for the Davis Prize and for the Best Student Poster in Vertebrate Morphology.

Election of DVM Officers

The election of new officers for the DVM has been moved to the spring. As usual the DVM Nominations Committee of Ken Dial (Chair), Sharon Swartz and Jim Stewart have performed a superlative job in finding highly qualified candidates for the positions of Program Officer and Secretary.

Program Officer Candidates:

John W. Hermanson

Associate Professor, Dept. of Anatomy, College of Veterinary Medicine, Cornell Univ. (1994-Present).

Education: B.S. Zoology (1975), Univ. of Massachusetts; M.S. Biological Science (1978), Ph.D. Zoology (1983) Univ. of Florida.

Past Appointments: Research Associate in Neurobiology, Emory Univ. (1983-1986); Research Assistant Professor, Dept. of Neurobiology, Anatomy and Cell Science, Univ. of Pittsburgh School of Medicine (1986-1987); Assistant Professor of Anatomy, College of Veterinary Medicine, Cornell Univ. (1987-1994); Oliver L. Austin Jr. Award (1983); Elected to honorary membership in Phi Zeta - Veterinary Honor Society (1991); ASZ Division of Vertebrate Morphology Nominations Committee (1985); Editorial Board of *Acta Anatomica* (1989); ASZ Division of Vertebrate Morphology Dwight Davis Award Committee (1991).

Research Interests: Biomechanics of the mammalian musculoskeleton.

John H. Long Jr.

Assistant Professor, Dept. of Biology, Vassar College (1991-Present).

Education: B.A. Human Ecology (1986), College of the Atlantic; Ph.D. Zoology (1991), Duke University.

Past Appointments: Research Assistant, Dept. of Zoology, Duke Univ. (1990-1991); Cocos Fellow in Morphology, Dept. of Zoology, Duke Univ. (1989-1991); Best Student Paper-Honorable Mention, Division of Vertebrate Morphology, ASZ (1990); Excellence in Teaching Award, Dept. of Zoology, Duke Univ. (1990); Chair, ASZ Division of Vertebrate Morphology Dwight Davis Award Committee (1993); Panelist, *Research Relevance*, ASZ (1995).

Research Interests: Biomechanics of the axial skeleton; undulatory swimming by aquatic vertebrates.

Secretary Candidates:

Dominique G. Homberger

Professor, Dept. of Zoology and Physiology, Louisiana State Univ. (1991-Present).

Education: Natural Sciences (1967), Univ. of Neuchatel; Veterinary Anatomy and Physiology (1969), Univ. of

Zurich; M.S. Biology (1972), Univ. of Zurich; Ph.D. Zoology (1976), Univ. of Zurich.

Past Appointments: Research Assistant, Univ. and Zoological Museum of Zurich (1972-1976); Visiting Scientist, Dept. of Ornithology, American Museum of Natural History (1977-1979); Postdoctoral Fellow, Dept. of Biological Sciences, Columbia Univ. (1977-1979); Assistant Professor, Dept. of Zoology and Physiology, Louisiana State Univ. (1979-1984); Research Associate, Museum of Natural Science, Louisiana State Univ. (1979-Present); Associate Professor, Dept. of Zoology and Physiology, Louisiana State Univ. (1984-1991); Honorary Member, CSIRO, Div. of Wildlife and Ecology, Canberra, Australia (1987-1988); Postdoctoral fellowship, Swiss National Foundation (1977-1978); Nominating Committee of Division of Vertebrate Morphology (1980); ASZ Division of Vertebrate Morphology Dwight Davis Award Committee (1983); ASZ Division of Vertebrate Morphology Nominating Committee (1988-1992); Erwin-Strsemann-Prize (1988); Selection Committee for Erwin-Strsemann-Preis and Ornithologen-Preis of the Deutsche Ornithologen-Gesellschaft (1988-1991); International Ornithological Committee (1990); Editorial Committee, International Congress of Vertebrate Morphology (1993-1994); Chair, International Relations Committee, Association for Women in Science (1993-Present); Nominating Committee, International Society of Vertebrate Morphology (1994); Program Committee of International Ornithological Congress (1994-Present); Editorial Board *Zoologischer Anzeiger* (1994-present).

Research Interests: Adaptive radiation of birds; Biomechanical analysis of complex morphological systems; Comparative, functional and ecological morphology of the avian feeding apparatus; Theoretical foundations and methods of morphology and phylogenetic reconstruction.

Bruce C. Jayne

Assistant Professor, Dept. of Biological Sciences, Univ. of Cincinnati (1992-Present).

Education: B.S. Ecology, Ethology and Evolution (1977), Univ. of Illinois; M.A. Zoology (1980), Univ. of South Florida; Ph.D. Zoology (1985), Michigan State Univ.

Past Appointments: Research Assistant, Division of Amphibians and Reptiles, Field Museum of Natural History (1975, 1977); Field Associate, Division of Amphibians and Reptiles, Field Museum of Natural History (1985); Postdoctoral Researcher, Field Museum of Natural History (1985-1986); Research Associate, Division of Amphibians

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Election of DVM Officers

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and Reptiles, Field Museum of Natural History (1986-1996); Postdoctoral Researcher, Univ. of California, Irvine (1986-1989, 1990-1992); James Scholar, Univ. of Illinois (1973-1974); Phi Sigma Honor Society, Univ. of South Florida (1978-1979); American Society of Ichthyologists and Herpetologists Stoye Award for Best Student Paper in Herpetology (1979); American Society of Ichthyologists and Herpetologists Stoye Award for Best Student Paper in General Herpetology (1984); Herpetologist's League Award, Best Student Paper (1985); Judge, Stoye Award for Best

Student Paper, American Society of Ichthyologists and Herpetologists (1989); Chair, ASZ Division of Vertebrate Morphology Dwight Davis Award Committee (1991); Univ. of Cincinnati, Summer Faculty Research Fellowship (1992).

Research Interests: Integrated functional and ecological study of evolution of complex adaptations; Neuromuscular mechanisms of vertebrate movement; Functional morphology of vertebrates.

Announcements

E-mail Listings

Martin Feder has started to compile a listing of E-mail addresses for all ASZ members. If you would like to be placed on the list or obtain a copy of the list contact Martin at m-feder@uchicago.edu.

Brian Clark is the new DVM representative to the ASZ Public Affairs Committee.

George Lauder is the new DVM representative to the ASZ Nominations Committee.

New books of Interest to Morphologists:

1. Wainwright, P. C. and S. M. Reilly. 1994. *Ecological Morphology: Integrative Organismal Biology*. Chicago Univ. Press.
2. Vogel, S. 1994. *Life in Moving Fluids*, 2nd Edition. Princeton Univ. Press.
3. Alexander, R. Mc. 1994. *Bones: The Unity of Form and Function*. MacMillan.

Summer Course entitled *Biomechanics of Intertidal Organisms* will be taught at Stanford's Hopkins Marine Station. The three week course is aimed primarily at researchers who plan to work in the intertidal zone. Contact Mark Denny at 408/655-6200; Fax 408/375-0793 for more information.

Regional Meeting — John Bertram

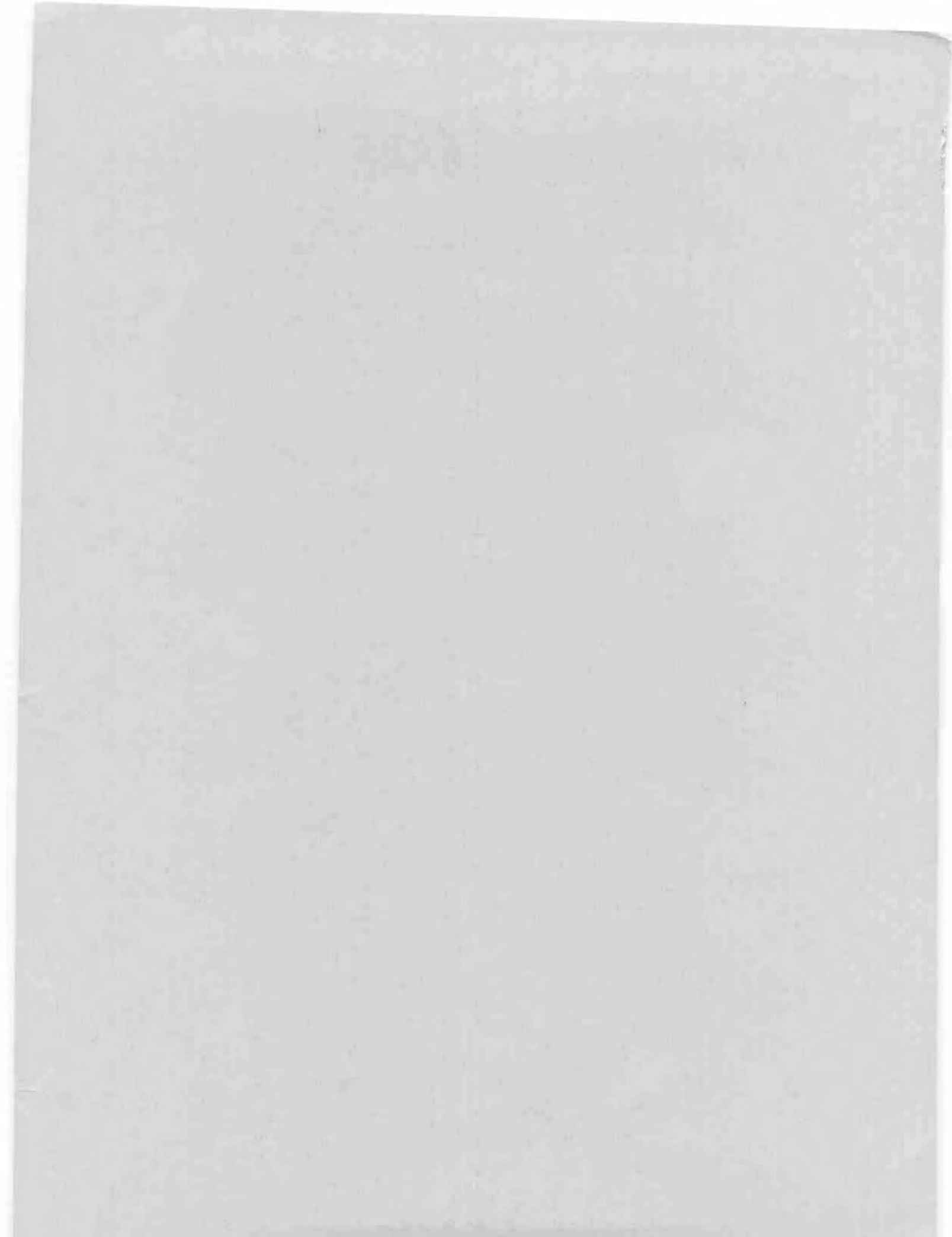
The Northeastern Regional meeting of the DVM will be at Cornell Saturday Oct. 7 and Sunday Oct. 8, 1995. Those of you who have attended the regional meetings in recent years recognize what an enjoyable and worthwhile venture this little meeting is. We've been pleased to have attendees from quite

an extensive area in the past and hope that will continue. The regional meeting gives us a chance to exchange ideas with colleagues and provides an inviting environment for students to try out their presentation in preparation for the National meeting. As in previous years, we will emphasize student participation and maintain a fun, but economical approach. Students will be given precedence for platform talks, but we will continue the ever popular "one-slider" challenge, so everyone who wants to present should find an opportunity. We are also planning to resurrect the informal workshops to help exchange technologies. If you would like to ensure that you are included on the invitation mailing list or have any other questions, please contact John Bertram (jeb2@cornell.edu). Ithaca can be lovely in early October.

Symposium on *Secondary Adaptation to Life in Water* to be held in Poitiers, France from 9-14 September 1996. For further information, contact Jean-Michel Mazin and Patrick Vignaud, Laboratoire de Geobiologie, Biochronologie et Pale-ontologie humaine, Universite de Poitiers, 40, avenue du Recteur Pineau, 86022 Poitiers Cedex FRANCE.

Workshop

A small workshop on "The Digestive System in Amniotes" is being planned for April, 1997 in Germany. The workshop follows up an earlier one that produces the excellent 1994 book *The Digestive System in Mammals* (ed. Chivers and Langer). To keep the workshop small, participation is by invitation only. For more information, contact the organizer, Peter Langer, Inst. fur Anatomie & Zellbiologie, Justus-Liebig-Universitat Giessen, Aulweg 123, D-35385 Giessen, Germany.





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