

Society for Integrative and Comparative Biology

formerly the American Society of Zoologists

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SICB News



letter

Spring 1996

Message from the President, Michael G. Hadfield

The Society for Integrative and Comparative Biology is truly a reinvigorated, growing institution, active in promoting the interests of our student members, disseminating forefront biological science, and influencing biological research and training in the world.

Our annual meeting in Washington, D.C., Dec. 26-30, 1995, was a major success for participants (I have never before received so many unsolicited letters to express satisfaction with a meeting) and drew critical media attention to the Society. Articles about the meeting appeared in local papers from Washington, D.C. to Seattle, as well as in *Science*.

As all members must be aware, a lot of changes have been taking place in our Society. Our new name was accompanied by the launching of a new logo, first presented at the Wash-

ington meeting. The logo presents both a diversity of animal types and the integrating themes of diverse habitats, molecules and plants. The new logo is available to members on T-shirts, cups and mousepads. Those of us in leadership positions in the Society have been gratified by the support

and enthusiasm the membership has provided for so many changes in such a short time period.

Along with all of these changes, member benefits continue to grow. You will soon receive the spectacular new book, "Molecular Zoology: Advances, Strategies and Protocols," including the proceedings of a symposium organized by Joan Ferraris and Steve Palumbi for the January 1995 meeting of the Society in St. Louis, Mo., plus excellent sections on the application of molecular approaches and methods to all aspects of biological research. The book is a great achievement for SICB, and we are grateful to the editors and contributing authors for this excellent volume.

In the publication vein, our journal, the *American Zoologist*, has been reorganized from the top down by new editor James Hanken. Jim has enlisted new associate and assistant editors and revamped the review process. Watch for other innovations in the coming year.

In addition, the Society is officially one of the founding members of a new, totally electronic journal, *Experimental Biology Online*. This journal, co-sponsored by the Society for Experimental Biology and the Australia and New Zealand Society for Comparative Physiology and Bio-

chemistry, will be published by Springer-Verlag. SICB representative to the electronic journal's editorial board is Joan Ferraris, and other SICB

members will soon be asked to serve on an editorial review committee. *EBO* Editor Christopher Bridges indicates that the journal is ready to receive electronically submitted papers;

on the World Wide Web, see: <http://science.springer.de/ebo/ebo-main.htm>.

Other items of news from the Society include our initiation, effective immediately, of a Grants-in-Aid of

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Research program for member graduate students. Proposals submitted will be competitively evaluated by the Society's Graduate Student Support Committee; the maximum will be \$1,000 for any single grant. With this newsletter may be found a card to be sent to our Chicago Business Office to request application materials.

This summer, some of your national officers will gather in Chicago for a first-ever long-range planning meeting. With so many options before us relative to meeting content and format, new

publications, membership growth and fund-raising, it is critical that the leadership be focused on select attain-

able goals. At this meeting, we hope to plan the Society's major new ventures for the next two to three years as well as how to achieve these goals. We are open to all suggestions that the membership might make for planning the Society's future.

While we're in great shape, we can still do better. We must continue our membership drive, so that other biological scientists, at both student and faculty levels, learn about and obtain the professional advantages of belonging to the SICB. Our meetings, journals, books, educational materials and a growing list of other "perks" make the Society a bargain at less than \$100 per year for full members.

In addition, the only way the costs of our meetings can appreciably decline is by splitting the cost among more attendees; a larger Society means expanded and less-expensive meetings. Sign up your students and scientific colleagues this year. Make SICB membership a must for all up-to-date biologists.

Finally, recent news includes the item that the U.S. Senate, by a single vote, continues to deny new listings for

Serious biologists must recognize their stake in securing the world's biodiversity for the next and future generations.

recognize their stake in securing the world's biodiversity for current and future generations.

We must share our often unique knowledge of the consequences of ignoring the destruction of biological resources, especially with the policy makers in this country. The financial forces on the other side are formidable. Write, call, fax and e-mail, but protest the disassembly of environmental protection in the United States.

This summer, your national officers will gather in Chicago for a first-ever long-range planning meeting.

endangered species. The attack on environmental protection in the United States continues, and serious biologists from all disciplines must recognize

Message from the Treasurer, Mary Beth Saffo

In the last two years, our Society has undergone many changes. We have moved from insolvency to solvency; we have changed our name and the dates of our Annual Meeting; direction of our journal has passed to a new editor; and we have undergone thorough reviews of the content of our meeting, our membership strategies and our general goals.

Not surprisingly, then, a recent theme of the issues facing the Treasurer and the Finance Committee has been the continuing need to clarify and to update financial policy to keep pace with the other changes in SICB.

I will review a few of these issues.

The General Financial Condition of the Society

At the end of 1995, reserve funds totaled approximately \$280,000, representing a healthy 34% of our 1995 expenses, which were approximately \$820,000. Our continuing goal is to maintain a reserve representing 25%-40% of our annual operating expenses.

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In 1994, we comingled our endowment with the fluid cash reserve, to allow us to take advantage of the higher interest rates available to larger-sized investments. To date, our reserve has been invested in money market funds. To further maximize our interest without financial risk to our principal, we plan this spring to invest \$100,000 of our reserve into a laddered investment of CDs. We are also investigating the possibility of future investment of a small portion of our reserve into mutual funds.

Society Support for the Annual Meeting

Improvements and innovations in the Annual Meeting are a top priority of the Society. To support these changes, the meeting continues to be subsidized heavily by general Society funds. At the same time, we are also looking for ways to improve our meeting income, both from exhibits and from meeting attendance, and to control meeting costs as much as possible.

Quality symposia are a key part of the Annual Meeting. To facilitate the development of such symposia and to increase our chances for outside funding of symposia, we

waive registration fees for speakers in any symposium whose organizer has applied for external funding. We also

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continue to budget funds for partial support of an annual society-wide symposium (when approved), partial subsidy of graduate student travel, and some funds to support greater media attention to our meeting.

These subsidies obviously increase our meeting expenses but have been initiated with the expectation that they will ultimately "pay off" in the future through higher meeting attendance, broader appreciation of the Society's activities and increased membership.

SICB Support for Graduate Student Research

With the help of the Endowment Committee, we have initiated a new Grants-in-Aid of Research program for graduate student members of SICB. To seed this program, SICB has allocated \$5,000 in 1996. In future years, we hope to raise an increasing percentage of grant-in-aid funding from donations.

Divisional Budgets

Formal divisional budgets are a relatively new addition to the Society. To facilitate our general budget accounting, we have formalized these budgets further by restricting expenditures of such budgets to a single fiscal year. In the last few months, it has become apparent that the Executive Committee will also need to clarify and reconsider what

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categories of expenses will be allowable under these budgets. My personal goal is to encourage a policy that will place support of the Annual Meeting as the top priority of divisional expenditures.

If you have any questions about financial issues of the Society, please feel free to contact me, either directly or through the SICB Business Office.

Message from the Program Officer, Willy Bemis

The 1995 Annual Meeting in Washington was a great success and clearly demonstrated our Society's commitment to integration across biology. In this way, it was an excellent model for us in our new identification as the "Society for Integrative and Comparative Biology."

Many thanks are owed to my predecessor, Frank Moore, for programming such an excellent array of symposia, special presentations and contributed paper sessions. Washington symposia included "Molecules to Mudflats," on the biology of estuarine animals; "Developmental Biology Research: Then and Now," an historical perspective on embryological research in the United States; "Aquatic Locomotion: New Approaches to Invertebrate and Vertebrate Biomechanics," highlighting recent progress in locomotor biology of both invertebrates and vertebrates; "Phylogenetic Systematics, Biogeography and Marine Biodiversity," integrating recent progress in systematics of invertebrate and vertebrate taxa with the search for large-scale patterns in geographic distributions; and "Amphibian Metamorphosis," which combined development, systematics and ecology as guiding themes in the study of metamorphosis.

A summary of three topics presented at the Washington meeting was published in *Science* (Vol. 271: Jan. 12, 1996, pp. 148-149), and it is nice to see this level of awareness concerning our members and their research presentations at the national meetings. It was great to see so many friends at the poster sessions, and I urge members to consider planning poster contributions for the upcoming meeting.

As usual, the enthusiastic participation by graduate and undergraduate students (nearly 400 students attended the Washington meeting) made it an intellectually vigorous and fun week.

Despite the government shutdown, we had our end-of-meeting gathering at the Smithsonian.

Thanks to our Public Affairs Committee, several science writers attended the Washington meeting as guests, and they emphasized that our meetings offer many topics of interest to the general public, which gives us the chance to spread the word about integrative biology. Popular and semi-popular articles about research presented at the Washington meeting are already appearing as a direct result of this effort by the Public Affairs Committee, which warrants special recognition for its work on behalf of all of us.

Turning to the future, I hope to use my term as Program Officer to enhance several aspects of our programming. I met with divisional program officers while in Washington and



Students and scientists from all over the country presented their findings in the Exhibit Hall throughout the Annual Meeting.

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am looking forward to our future interactions. I am especially delighted to have the chance to work with our new editor of *American Zoologist*, Jim Hanken, to plan and to deliver exciting symposia for publication in our journal.

Several symposia were already in the planning stages for the Albuquerque meeting when I came to office in January. These include: "A Tribute to Stephen A. Wainwright: Mechanical Design in Organisms"; "Developmental Endocrinology of Non-mammalian Vertebrates"; "Evolution of Developmental Mechanisms"; "Responses of Terrestrial

1996 SICB Annual Meeting:
Dec. 26-30 in Albuquerque, N.M.

Invertebrates to Variation in Temperature and Water Availability: Molecular, Organismal and Evolutionary Approaches"; "Behavioral Ecology"; and "Use of Polymorphic Characters in Systematics."



Brian Bagatto (far right) answers questions about his research on Central American turtles during a poster session at the 1995 Annual Meeting in Washington, D.C.

I am also initiating some changes in the abstract submission forms for the Albuquerque meeting, including the addition of e-mail addresses on the published abstracts and a system of self-selected key words to help us make a more useful index for the final program book. We also hope to use the self-selected key words to try to reduce some of the scheduling frustrations that seem inevitable at such large meetings.

Last summer, President Michael Hadfield appointed an ad-hoc subcommittee on the program, chaired by Martin Feder, which has the charge of developing ways to design outstanding meetings for the future that will attract membership and attention. This subcommittee represents a progressive force for SICB.

In sum, it is nice to be on board, and I look forward to working with all of you.

Silver Sponsor S & S Co. of Georgia Offers Warm 'Welcome'



S & S Co. of Georgia, Inc., as a Silver Sponsor at the American Society of Zoologists 1995 Annual Meeting in Washington, D.C., co-sponsored the Welcome Reception held the first night, Dec. 26. They also operated a booth in the Exhibit Hall. Pictured at left are Allan Jones (front row, from left to right), Randy Skalla, Rebekah Skalla, Marc Skalla (back row, from left to right), Gaylan Hayes, and David Plaskow.

SICB Supports Students, Future of Science, the Society

"I would not have been able to attend this meeting without the help of the Society," says Susan Wieting, a 26-year-old graduate student, who participated in her first Annual Meeting of the Society for Integrative and Comparative Biology (SICB), Dec. 26-30, 1995, in Washington, D.C.

Wieting, who studies worms at San Francisco State University, says she came to Washington partially due to the generosity of the SICB and its Student Support Program. While there were 93 students receiving assistance through the program, the Society welcomed almost 400 students and postdoctoral candidates to the Annual Meeting.

"Students represent the future of science and the future of the Society," says Mark Sheridan, associate professor of zoology at North Dakota State



Susan Wieting of San Francisco State University helps Mike Dickinson of the University of Chicago at the ASZ Registration Desk at the 1995 Annual Meeting in Washington, D.C.

University and chair of the SICB Graduate Student/Postdoctoral Affairs Committee.

Sheridan cites the Society's history

as one that has faithfully supported students of science. "The Society has

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Students Investigate Job Opportunities Through New Career Center

Consider it an employment agency for biologists.

But Mark Sheridan calls it the Career Center and adds that "for those who utilized it, it was quite helpful."

The Society for Integrative and Comparative Biology (SICB) set up a Career Center in one of the rooms at its Annual Meeting Dec. 26-30, 1995, in Washington, D.C.

"What's really on every student's mind is securing a



Libby Willson of the University of Charleston, S.C., checks out job listings in the Career Center at the 1995 Annual Meeting in Washington, D.C.

permanent position in science," says Sheridan, chair of the SICB Graduate Student/Postdoctoral Affairs Committee and associate professor of zoology at North Dakota State University in Fargo. "Our goal is really to serve as an employment brokerage, matching up potential employers with candidates.

"We have been soliciting listings of open positions from members and private corporations nationwide," he says. "We need to continue to develop better ways of finding open positions and making our student members aware of these."

The Career Center included a binder of open job listings as well as a binder where job candidates could leave their résumés for potential employers attending the Annual Meeting to review.

Sheridan hopes to make the Career Center more visible at upcoming meetings and is hoping to begin listing job openings in conjunction with the SICB World Wide Web home page (<http://SICB.berkeley.edu/SICB/SICB.html>).

Says Sheridan, "All of us who have positions available have to do our part to bring them to the awareness of the SICB students and post-docs."

—Tom Toussaint,
SICB Newsletter Coordinator



Richard Nemeth of the University of New Hampshire at Durham operates a slide projector in the "Bats, Insects and Ultrasound" Symposium at the 1995 Annual Meeting in Washington, D.C.

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a tremendous tradition of valuing students and helping them establish careers in science."

He sees several reasons why participating in the SICB Annual Meeting is so valuable for students. "It's such an excellent opportunity for them to be exposed to other stu-

'Coming to a conference like this really broadens the scope that we work in,' says Wieting. 'Here you see the whole scope of science as well as parallels in research to your field of study.'

dents and to learn some of the most current research in their field from the people doing the research," says Sheridan.

Wieting agrees. "Coming to a conference like this really broadens the scope that we work in." She explains that in

their day-to-day work, most students have limited exposure to other topics and limited contact with other people except for those directly involved in the aspect of the subject that they are studying. "Here you see the whole scope of science as well as parallels in research to your field of study."

Richard Nemeth, a 34-year-old doctoral student in zoology at the University of New Hampshire in Durham, ran the projector for a few hours in the "Bats, Insects and Ultra-

Sheridan adds, 'The Annual Meeting is also an opportunity for students to bounce their ideas and research off of the scientific community and get constructive feedback from leaders in the field.'

sound" symposium. "While I study fish in my research, the predator-prey relationship between the bats and the insects may reflect behaviors similar to the ones I observe in the fish," he says.

Sheridan adds, "The Annual Meeting is also an opportunity for students to bounce their ideas and research off of the scientific community and get constructive feedback from leaders in the field."

One of the requirements of the Student Support Program is that all participating students present research findings that they have made. Students also must assist in the presentation rooms as well as at the registration desk as part of the financial assistance that the SICB provides them.

Nemeth also finds great value in the opportunity to network that participating in the SICB Annual Meeting provides. "You can make contacts for postdoctoral positions and jobs across the country," he says.

"Whatever we can do to encourage that, we want to do," says Sheridan. "We want to be advocates for students, to help them become the most successful scientists that they can be."

—Tom Toussaint

SICB Newsletter Coordinator

SICB moves Annual Meeting from End to Beginning of Year in 1998

Historically, the Society for Integrative and Comparative Biology (SICB), formerly the American Society of Zoologists, has held its Annual Meeting during the last week in December.

After 1996, however, all Annual Meetings will be held in early Janu-

ary versus right after the Christmas holiday.

Because of this change in the scheduling, there will not be an Annual Meeting held during the calendar year of 1997.

After the 1996 SICB Annual Meeting, scheduled for Dec. 26-30

in Albuquerque, N.M., the next scheduled SICB Annual Meeting will be held Jan. 3-8, 1998, in Boston at the Boston Marriott Hotel Copley Place.

The 1999 SICB Annual Meeting will be held Jan. 6-10, 1999, in Denver at the Adam's Mark Denver.

Message from the Secretary, Susan E. Peters

Assuming that we all have recovered from the Washington meeting, I hope everyone is thinking ahead to the 1996 meeting in Albuquerque. As you can see from the Program Officer's report, the 1996 Annual Meeting promises to be just as exciting and should prove a good send-off to our old Society with the new name! Look for more information this spring with the call for abstracts.

I'm heading into the final stretch of my term as your Secretary; Tom Wolcott at North Carolina State University will be taking over in 1997.

Once again, I would like to emphasize that the *SICB Newsletter* is your vehicle to disseminate information among your colleagues around the world. When your divisional secretaries call for announcements or interesting blurbs, please keep this in mind.

If you have information you'd like to share with the Society (other meetings and workshops; sabbatical addresses; new teaching or research software; ideas for

Society-wide symposia), please submit newsletter items to me or to the SICB Business Office in Chicago. The deadline for the fall newsletter is Thursday, Sept. 6. We'd like to hear from you.

Once again, I would like to emphasize that the *SICB Newsletter* is your vehicle to disseminate information.

On that note, I will be visiting the lab of Kiisa Nishikawa from June 1, 1996, to Jan. 1, 1997. If you'd like to submit copy for the fall newsletter or drop in on e-mail, you can contact me in care of the Department of Biological Sciences, Northern Arizona University, Box 5640, Flagstaff, AZ 86011. My phone number will be 520/523-2381.

Use my same e-mail address (sepeters@email.uncc.edu) — your messages will be forwarded automatically.

SICB launches new Grants-in-Aid of Research program for graduate students

The Graduate Student Support Committee (GSSC) has been authorized by the Executive Committee of the Society to initiate what is intended to be a permanent annual Grants-in-Aid of Research program for graduate students in degree programs who are active members of SICB.

Awards will be made to support scientific investigation in any of the areas of integrative and comparative biology represented within SICB.

Awards will be initially made in amounts up to \$1,000, all of which must be spent in direct support of the pro-

posed study. Resources are available to permit five awards in this first cycle.

Interested students can request application materials from the SICB Business Office using the postcard enclosed with this edition of the *SICB Newsletter*. Closing date for receipt of applications and supporting letters will be Dec. 1, 1996. Applicants will be notified of GSSC decisions within six weeks after the next Annual Meeting of SICB.

—Malcolm Gordon, Chair
SICB Graduate Student Support Committee

Educational Council News

The Council's main undertaking this year will be to revise the out-of-date brochure, *Careers in Animal Biology*. Council member Nina Caris in the Department of Biology at Texas A&M University will be organizing this effort.

SICB members who wish to contribute their ideas and expertise on

what should be in the brochure and how it should be presented should contact Nina via e-mail at n-caris@tamu.edu.

Our goal is to have a well-designed and effective finished product ready for distribution at the 1996 meeting in Albuquerque, if not before.

Each year, members rotate on and

off the Council. This year, Paul Cupp from Eastern Kentucky University will leave the Council; he will be replaced by Jay Labov from Colby College. Many thanks to Paul for his service!

—Sue Cook, Chair
SICB Educational Council

Report from the Public Affairs Committee

The Public Affairs Committee had several highly successful activities at the Annual Meeting in Washington and plans to keep the momentum going through the year and on to the Albuquerque meeting in December 1996 and beyond.

Our keynote speaker was Lynn Goldman, EPA Assistant Administrator for Toxic Substance and Pollution Prevention. Goldman summarized 25 years of progress at EPA and went on to describe how the current political and budget situation is crippling the EPA. She explained that the prospects for science in general, both research and application, are dismal in the present political climate.

The committee also organized a media-training workshop, conducted by Brian Day of the Academy for Educational Development for about two dozen members. Day videotaped several members of the audience to highlight his presentation on how scientists can most effectively communicate with reporters and the public.

Members used the lessons quickly and effectively to enhance our coverage in several publications. Based on the positive feedback and success in placing our stories in the media, we plan to repeat this workshop in Albuquerque.

The Committee sponsored four professional writers from the Marine Biology Laboratory Science Writers' Program to attend the Washington meeting, and these writers provided us with valuable insight into the way we deal with the media and the public.

In a round-table discussion after the media workshop, these professionals recommended a number of changes to make the meeting more "reporter-friendly", including invitations to socials and using language that is less technical.

An evening panel discussion on the role of science in reg-

ulation and policy drew about 35 Society members who engaged the speakers in a lively discussion on risk assessment and government regulation. Plans are underway to hold the panel discussion in Albuquerque in the daytime.

Our best press coverage came after the meeting, with a two-page spread in *Science* magazine and another two-page story in *Science News*. *The Washington Times* also ran two stories on the Annual Meeting, both quoting our members freely, and *The Seattle Times* continues to run articles.

Day videotaped several members of the audience to highlight his presentation on how scientists can most effectively communicate with reporters and the public.

The Public Affairs Committee will strive to improve press relations during the Annual Meeting and throughout the year. In addition, the Committee will look for opportunities to articulate support for integrative and comparative biology in our broader society.

We encourage the Society's members to contact their divisional representative to the Committee for information on media relations and how we can all support SICB and our collective scientific endeavors.

The representatives to the SICB Public Affairs Committee are Hans Laufer, DCE; Ted Grosholz, DEE; Patricia S. Brown, DHPB; Rachel Ann Merz, DIZ; Dominique Didier, DSZ; and Brian D. Clark, DVM.

—Peter deFur (DCPB), Andy Cameron (DDCB)
Co-Chairs, Public Affairs Committee

Share the Secrets of Your Success With Others

It has become more and more difficult for professional scientists to locate and obtain the funding they need to support their ongoing projects.

But the Society for Integrative and Comparative Biology (SICB) knows that there are many scientists out there who have had great success in securing funding. The *SICB Newsletter* invites its readers to submit their stories where they have met

with the greatest success: names of agencies, endowments and corpora-

The *SICB Newsletter* invites you to submit your grant and endowment success stories.

tions that have been friendly toward scientific endeavors.

Readers should briefly explain the application and selection process, and, if appropriate, why he or she thinks it is a "success story."

Look for selected submissions in subsequent editions of this newsletter.

Success stories should be sent to Tom Toussaint, SICB, 401 N. Michigan Ave., Chicago, IL 60611-4267, or faxed to 312/245-1083, or sent via e-mail to tom_toussaint@sba.com.

New U.S. Stamp Honors Former ASZ Member, Ernest E. Just

A U.S. postage stamp honoring Ernest E. Just and released in early February is — to my knowledge — the first to feature a member of the American Society of Zoologists (ASZ), now the Society for Integrative and Comparative Biology (SICB).

The stamp is this year's issue in the Black Heritage series.

Of African and German descent, Ernest E. Just was born in Charleston, S.C., in 1883 and died in New York in 1941.

Professor and Chair of the Zoology Department at Howard University for many years, Just is best known for his work on the fertilization process and early development of marine invertebrate eggs.

Just graduated from Dartmouth College and then joined the Howard faculty, teaching English and, starting in 1910, biology. His research career began at the Marine Biological Laboratory in Woods Hole, Mass., in 1909, as research assistant to Frank R. Lillie.

His first scientific papers, published in 1912-15 in the *Biological Bulletin*, demonstrated the determination of the first cleavage plane by the entry point of the sperm in polychaete eggs, the role of fertilizin in the fertilization process, and the swarming behavior of nereids and its relationship to spawning.

Just's publications through 1915 served as his Ph.D. dissertation at the University of Chicago in 1916 under Lillie's supervision. He later switched to studying fertilization, the activation of development, and the propagation of blocks to polyspermy in echinoderm eggs, and he expanded his studies to bryozoan and tunicate eggs and geographically to Jamaica and to European marine laboratories.

Just was elected to the then-American Society of Zoologists (ASZ) in 1920 and participated in a symposium on fertilization at that year's meeting in Chicago. During the 1920s, Just was increasingly drawn to the

Stazione Zoologica and laboratories in Germany, apparently by a combination of scientific, cultural heritage and romantic attractions, and escape from professional and family difficulties in Washington.

Although his long stays in Europe kept Just from several ASZ meetings, he remained active in Society affairs in the 1920s and '30s, and he shied neither from active involvement in contemporary controversies in developmental and cell biology nor from problems and responsibilities that derived from his being virtually the only black zoologist in a major teaching and research position.

Just chaired several sessions at the ASZ meeting in Cleveland, Ohio, and served on the Society's nominating committee in 1929. He participated in the 1935 meeting at Princeton, N.J., attempting a synthesis of genetics, cytology and embryology, as well as in the 1936 meeting at Atlantic City, N.J.

Just's last ASZ participation was the 1940 meeting in Philadelphia, where he presented no fewer than three papers.

Just published 50 papers, abstracts

of numerous additional presentations, and two books, both published by Blakiston's in 1939: *The Biology of the Cell Surface*, and *Basic Methods for Experiments on Eggs of Marine Animals*.

Just died at age 58 after a long and debilitating illness and a "constant struggle for opportunity for research, the breath of life," according to an obituary written by Lillie for *Science* magazine in 1942.

The 26th Southeastern Conference on Developmental Biology, held at the Belle Baruch Laboratory of the University of South Carolina, honored the centennial of Just's birth. Kenneth R. Manning's excellent book, *Black Apollo of Science*, published in 1983 by Oxford University Press, chronicles his rich and eventful, if tortured, life and is the source of most of the information in this account.

—Alan J. Kohn
SICB President-Elect



Honoring Viktor Hamburger

Friends, colleagues and former students of Viktor Hamburger, Edward Malinckrodt Distinguished Professor of Biology Emeritus at Washington University in St. Louis, are collecting funds to dedicate a Chair in Lillie Auditorium at the Marine Biological Laboratory in Woods Hole, Mass., in honor of Victor's 95th birthday in July 1995.

A student of Nobel laureate Hans Spemann at the University of Freiburg, Hamburger came to the United States in 1933 on a Rockefeller Fellowship to Frank R. Lillie's laboratory at the University of Chicago, subsequently moving to Washington University in 1935. He served as an instructor in the Embryology Course at the MBL from 1935-40 and as Director of the course from 1940-45.

Those interested in contributing to honor Viktor can send a donation — any amount from \$5 to \$500 or more — to Frank Carotenuto, Director of External Affairs, Marine Biological Laboratory, Woods Hole, MA 02543.

Funds received above and beyond the endowment for the chair will be used to preserve Viktor's papers and reprint collection, which he has graciously donated to the MBL Library.

SICB Announcements

Summer Courses

Oregon Institute of Marine Biology

June 22-Aug. 16

Courses offered: "Invertebrate Zoology," instructor to be announced; "Biology of Fishes," C. Peterson and H. Hess; "Marine Birds and Mammals," J. Hodder.

Weekend workshops: "Biological Illustration," C. Stasek; "Coastal Wetland Restoration," S. Rumrill and C. Cornu; "Animal Locomotion," T. Daniels.

For more information and an application, contact the Oregon Institute of Marine Biology, University of Oregon, Charleston, OR 97420. The phone number is 541/888-2581; the fax is 541/888-3240; and the e-mail address is jhodder@oimb.uoregon.edu.

Hopkins Marine Station

Courses offered: "Cell Biology & Early Development" and "Subtidal Communities," first session, June 17-July 5, and "Problems in Subtidal Ecology," second session, July 22-Aug. 23.

For more information and an application, contact the Hopkins Marine Station of Stanford University, Pacific

Grove, CA 93950. The phone number is 408/655-6200; the fax number is 408/375-0793; and the e-mail address is fh.hms@forsythe.stanford.edu.

Grants and Awards

Environmental Science Minigrants

The Environmental Defense Fund (EDF), a national non-profit environmental organization, requests proposals for up to \$15,000 for research projects related to topics of substantive interest to the EDF. This minigrant program is part of EDF's Environmental Science Program to enhance scientific input to public interest environmental organizations.

Research topics may be related to climate change, toxic chemicals, wetlands, water quality, environmental economics, etc. EDF is particularly interested in topics that impact issues of concern to local communities.

Eligibility is limited to scientists at public or private colleges and universities. For more information, contact the EDF via e-mail at gp@edf.org or by calling 212/505-0606, ext. 326. EDF is an Equal Opportunity Employer.

See next page

SICB benefits never end

Members Receive Discounted Journals

Don't miss out! SICB members can take advantage of special offers on these scientific journals! Prices and contacts are as follows:

Journal	1996 Subscription Price	Contact
Brain, Behavior & Evolution	\$322 for faculty \$156 for students, post-docs, non-faculty	Mary Sue Northcutt Tel: 619/534-5613 Fax: 619/534-5622 E-mail: msnorthcutt@ucsd.edu
Comparative Biochemistry and Physiology	Part A: \$99 Part B: \$99 Part C: \$75 All parts: \$202	SICB Business Office
General and Comparative Endocrinology	\$115 if institution subscribes \$175 if institution doesn't subscribe	SICB Business Office
Journal of Morphology	\$150 members residing in N. America \$210 members residing outside of N. America	Ms. Miriam Pedone John Wiley & Sons Tel: 212/850-8780 Fax: 212/850-6021 E-mail: mpedone@jwiley.com
Physiological Zoology	\$53 members residing in U.S. \$64 members residing outside U.S.	University of Chicago Press Tel: 312/753-3347

From previous page

1997-98 Fulbright Awards for U.S. faculty and professionals

Opportunities for lecturing or advanced research in over 135 countries are available to U.S. faculty and professionals. To qualify for lecturing awards, university or college teaching is expected. Foreign-language skills are needed for some countries, but most lecturing assignments are in English.

The deadline for lecturing or research grants for 1997-98 is Aug. 1, 1996.

For more information or an application, contact the USIA Fulbright Senior Scholar Program, Council for International Exchange of Scholars, 3007 Tilden St., NW, Suite 5M, Box GNEWS, Washington, DC 20008-3009. The phone number is 202/686-7877; the World Wide Web page address is <http://www.cies.org>. The e-mail address is cies1@ciesnet.cies.org, to be used only for requests for mailing an application.

Publications

Evolution and the Aquatic Ecosystem: Defining Unique Units in Population Conservation

American Fisheries Society

This volume contains the proceedings of a May 1994 symposium on the conservation of aquatic diversity from an evolutionary and ecological point of view. It includes 31 papers covering both basic and applied topics.

Cost is \$69 (\$41 to AFS members), plus \$4 per book for shipping. To order copies or for more information, contact the American Fisheries Society, Fulfillment Dept., P.O. Box 1020, Sewickley, PA 15143. The phone number is 412/741-5700, and the fax number is 412/741-0609.

Working With Congress: A Practical Guide for Scientists and Engineers

American Association for the Advancement of Science

Written by William G. Wells, Jr., former subcommittee staff director for the House Science Committee and former chief of staff for the White House Office of Science and Technology Policy, the guide provides information on communicating with Congress. The guide emphasizes that Congress "will make decisions on support for science and technology policy whether scientists and engineers choose to become involved or not." So it is to our advantage to communicate our interests and viewpoints rather than leaving others to influence these decisions.

The core of the guide consists of 17 cardinal rules for communicating with Congress. The new edition of the guide also includes congressional World Wide Web sites, addresses of Internet sites that track science policy, and e-mail addresses for members of Congress. In addition, it provides an expanded list of government-relations contacts at professional societies and a list of reference books and periodicals that cover science policy.

Cost is \$15.95 plus \$4 for shipping. To order copies or for more information, contact the AAAS Distribution Center at 800/222-7809.

Guide for the Care and Use of Laboratory Animals, Revised Edition

Institute of Laboratory Animal Resources, National Research Council

Contact the National Academy Press, 2101 Constitution Ave., NW, Washington, DC 20418.

Frogs

David Badger and John Netherton, Voyageur Press

This is a non-technical nature book including 120 full-color photographs of anurans from all over the world. It includes frog folklore and frogs in literature, as well as range maps, photos and information on 50 of the most unusual frog and toad species worldwide. The final chapter covers endangered species and the role of frogs as barometers of ecological conditions.

To order copies or for more information, contact Voyageur Press, P.O. Box 338, 123 N. Second St., Stillwater, MN 55082. The phone number is 800/888-9653.

Workshops

"The Role of the Institutional Official in Compliance with the Animal Welfare Act and the PHS Policy on Humane Care and Use of Laboratory Animals"

May 16-17, 1996, Wright State University in Dayton, Ohio

The Office for Protection from Research Risks (OPRR) in conjunction with three Ohio universities sponsors this workshop that deals with all aspects of the institutional official's essential role in maintaining high quality animal care. Of particular interest may be methods for evaluating institutional committees, programs and facilities.

Workshops are open to institutional administrators, IACUC members, lab-animal veterinarians, investigators and other staff with animal program responsibilities.

For more information or to register, contact Theresa Atwood, Office of Conference and Events, Wright State University, 3640 Colonel Glenn Highway, Dayton, OH 45435. Her phone number is 513/873-5512, and her fax number is 513/873-5517.

World Wide Web

The American Association for the Advancement of Science World Wide Web site is making available a new searchable format for Science Sources, which is its listing of scientific organizations, government agencies, universities, corporations and international organizations.

Users will be able to use a keyword search to seek out organizations of interest in the News and Information section of the AAAS home page located at <http://www.aaas.org>.

For more information, call 202/326-6440.

Resolution of the Society for Integrative and Comparative Biology (formerly the American Society of Zoologists)

Editor's Note: At press time, the membership of the Society for Integrative and Comparative Biology was voting on whether to adopt this resolution. The results of that ballot will appear in the Fall 1996 issue of the SICB Newsletter. What follows is the full text of the resolution.)

The Society for Integrative and Comparative Biology (formerly the American Society of Zoologists) has a membership of 2,200 professional biologists within the United States and other countries. Our expertise ranges from cell biology to ecology in academic, government, and business settings. In its 106 year history the Society has counted among its members many eminent scientists and is a vital force in organismal biology.

To maintain life on the planet, it is essential that governing bodies recognize the importance of natural ecosystems and act responsibly toward the diverse array of organisms to limit human-caused extinction. Both non-domesticated organisms and their natural habitats have combined aesthetic, cultural and scientific value that is broadly recognized by the majority of society. As the presence of humans and the products of human lifestyles impact the land and oceans, we can and should act to contain and reduce these effects. Laws regarding these conservation objectives (such as the Endangered Species Act, Clean Air Act, and Clean Water Act) are currently subject to change and dilution due to pressure from select groups that are fundamentally focused on immediate economic goals, rather than on long-term economic and ecological sustainability and social needs. Our position as an international Society concerned for the welfare of the Earth's life is that a) containment legislation should grow in strength to counteract the unsustainable rates of consumption of limited and non-renewable world resources and b) we must reduce the rates of production and consumption by technologically advanced nations, such as the United States. Underlying this position is the inarguable need to reduce the world's human population.

In recognition of these conditions, and in a non-partisan fashion, the Society for Integrative and Comparative Biology has this list of resolutions, directed at the United States:

1) We support the reauthorization and strengthening of the Endangered Species Act, to protect non-human species and their habitat. This is provided that the opportunity to modify the Act is not subverted in order to weaken it. We endorse efforts to enhance (not replace) the ESA with habitat conservation plans that result in an increase in viable habitat and the populations of threatened and endangered species contained within. We do not support such plans when they benefit developers at the expense of habitat needs (as is the case with wetlands development).

2) We support reestablishment of endangered species (e.g., the gray wolf) into their formerly-occupied habitat, with the full protection of the current version of the ESA, and not as "experimental, non-essential" populations. Given the disruptive effects to terrestrial ecosystems, we oppose the lethal con-

trol measures taken by the federal and state governments in the lower 48 against various native predators (e.g., coyotes, bobcats, black bears, cougars) and in Alaska against wolves and bears through "predator-control" programs and liberal hunting and trapping regulations.

3) We fully support the provisions of the Convention for International Trade in Endangered Species (CITES) and recommend enforcement of the treaty, including economic sanctions, due to heavy trade in parts from organisms currently threatened with extinction, such as the tiger. We support the efforts of the U.S. government to halt commercial whaling and recommend increased diplomatic pressure and the application of economic sanctions in the face of violations of international agreements by specific countries, such as Japan (with its misnamed "scientific-whaling" program) and Norway.

4) We strongly recommend the designation of all remaining "wildlands" (areas with few or no roads) in the public domain in the United States as Wilderness, with the added provision that these lands should be unavailable for livestock grazing. These areas have been identified by governmental agencies, but are still available for logging, mining, and grazing.

5) We regard methods of extraction of primary resources and power generation that damage the ecosystems involved and reduce their continued productivity as biological travesties. This includes, but is not limited to, clearcutting old-growth and mature forests for timber and wood pulp, construction of dams, and large-scale trawling for benthic fish and shellfish on the sea bed (an activity which results in extensive bottom destruction). We urge that there be no more logging of mature forests on public lands and an immediate end to the incorrectly termed "salvage logging" program enacted through a Congressional rider (#318). Means of supporting human productivity must simultaneously sustain humans and protect the integrity of the ecosystems impacted, to ensure our survival as a species.

6) We urgently recommend an immediate decrease in the rate of damage to the Earth's atmosphere due to production of greenhouse gases and ozone-depleting chemicals. These gases are considered by most scientists to be responsible for global warming and increases in ultraviolet radiation exposure in polar and temperate regions, leading to possible disruption of latitudinal thermal regimes and weather patterns by warming and increased risk of UV-induced mutagenesis for exposed organisms (including humans). The U.S. must support existing and future international conventions for reductions in these gases and chemicals and stop avoiding them and providing exceptions to larger corporations.

Candidates for the SICB General Election

Candidates for President-Elect

David Crews

Current Position: Professor, Zoology and Psychology, University of Texas at Austin, since 1984; Director, NIMH Training Program in Neurobiology and Behavior, University of Texas at Austin, since 1987; Director, Undergraduate Biomedical Training Program, University of Texas at Austin, since 1983.

Education: B.A., University of Maryland, College Park, 1969; Ph.D., Institute of Animal Behavior, Rutgers University, 1973; Summer Course in Embryology, Marine Biological Laboratories, Woods Hole, 1980; Summer Training Course, Institute in Behavioral Genetics, University of Colorado, Boulder, 1975.

Professional Experience: Associate and Acting Chairman, Department of Zoology, University of Texas at Austin, 1987-90; Faculty, Summer Study Program, Institute of Marine Biology, University of Hawaii, Summer 1986 and 1987; Research Associate, The Kinsey Institute for Research in Sex, Gender, and Reproduction, Indiana University, 1983-84; Adjunct Associate Professor, Psychology, University of Texas at Austin, 1982-86; Associate Professor, Zoology, University of Texas at Austin, 1982-84; Associate, Museum of Comparative Zoology, Harvard University, 1975-82; Lecturer, Assistant, and Associate Professor, Biology and Psychology, Harvard University, 1975-82.

Major SICB Divisional Affiliation: Animal Behavior

SICB Activities: Symposium Organizer (with Neil Greenberg), 1979.

Other Memberships: The American Association for the Advancement of Science (AAAS); Endocrine Society; International Society for Neuroethology; Board Member, Society for Behavioral Neuroendocrinology; Member, Organizing Committee, VII World Congress of Sexology, 1985; Member, Board of Trustees, Austin Metropolitan Zoological Society, 1985-89; Annual Science Chairman, NIH Special Study Section, 1989, 1994, 1996; Member, NIH Study Sections, 1992, 1993; and Member, NIMH Initial Review Group, 1995-99.

Research Interests: The evolutionary constraints and diversity of proximate mechanisms controlling mating behavior; the evolution of hormone-brain-behavior mechanisms; the mechanism of temperature action in determining sex in reptiles; and how the temperature experienced by the embryo shapes the phenotype of the adult.

Goal Statement: To serve as a strong advocate at the academic and federal levels for the comparative, interdisciplinary approach to organismal biology. I will emphasize how research conducted both in the laboratory and in the field illustrates how the causal mechanisms and functional outcomes of biological processes operate at each level of biological organization while, at the same time, illuminates the relations among the levels.

John G. Hildebrand

Current Position: Regents' Professor, University of Arizona, since 1989; Professor of Neurobiology, Biochemistry, Entomology, and Molecular & Cellular Biology, University of Arizona, since 1985; Director, Division of Neurobiology, and Chairman, Committee on Neuroscience, University of Arizona, since 1985; Associate in Behavioral Biology, Harvard University Museum of Comparative Zoology, since 1980.

Education: A.B., Biology, Harvard College, 1964; Ph.D., Biochemistry, Rockefeller University, 1969.

Professional Experience: Instructor, 1970-72, Assistant Professor, 1972-77, and Associate Professor of Neurobiology, 1977-80, Harvard Medical School; Professor of Biological Sciences, Columbia University, 1980-85; and Adjunct Professor, Rockefeller University, 1981-86.

Major SICB Divisional Affiliation: Animal Behavior

Other Memberships: Member-at-Large, Section on Neuroscience Steering Group, 1995-98, American Association for the Advancement of Science (AAAS); American Society for Biochemistry and Molecular Biology; Animal Behavior Society; Councillor, 1993-95, Association for Chemoreception Sciences; Entomological Society of America; Program Committee Chair, 1990-92, President, 1995-98, International Society for Neuroethology; Society of General Physiologists; Program Committee Chair, 1983, Membership Committee Chair, 1987-90, Treasurer, 1993-94, Publications Committee, 1994-97, Society for Neuroscience; Board of Trustees, 1981-89, Executive Committee 1981-88, Marine Biological Laboratory, Woods Hole, Mass.; Chairman, 1989-91, National Advisory Committee, Biological, Behavioral & Social Sciences, NSF; Advisory Committee, since 1990, APA-NIMH Minority Fellowship Program in Neuroscience; Co-Chairman, 1995-96, Special Committee to Review Training Programs, NINDS-NIH; Member, 1996-99, Fachbeirat of the Max-Planck-Institut für Verhaltensphysiologie, Seewiesen, Germany; and Consiglio Scientifico, 1996-2000, Stazione Zoologica, Naples, Italy.

Research Interests: Functional organization, physiology, neurochemistry, and development of the insect olfactory system; olfactory control of insect behavior; chemical ecology and sensory mechanisms of insect-host interactions; neurosecretion and neuromodulation in the insect CNS.

Goal Statement: To broaden, strengthen, and increase the interdisciplinary scope of the Society's scientific profile, to increase the international relations of the Society, and to encourage the involvement and professional progress of young scientists.

Candidates for the SICB General Election (continued)

Candidates for Treasurer-Elect

Kimberly Gray Smith

Current Position: Professor, Biological Sciences, University of Arkansas, Fayetteville, Ark., since 1992; Adjunct Professor, Biology, University of Memphis, since 1995.

Education: B.S., Biology, Tufts University, 1971; M.S., Zoology, University of Arkansas, 1975; Ph.D., Biology-Ecology, Utah State University, 1982.

Professional Experience: Ecologist-in-Residence, Bodega Marine Laboratory, University of California, Davis, 1991; Associate Professor, Zoology, University of Arkansas, 1987-92; Assistant Professor, Zoology, University of Arkansas, 1985-87; Visiting Assistant Professor, Zoology, University of Arkansas, 1981-85; Post-Graduate Research Ecologist, Bodega Marine Laboratory, University of California, Berkeley, 1980-81.

Other Memberships: The American Association for the Advancement of Science (AAAS); AIBS; Chair, Committee on Nomination of Fellows and Elective Members, 1984-87, Chair, Committee on Careers in Ornithology, 1984-88, Local Committee, 106th Meeting in Fayetteville, 1988, American Ornithologists' Union; Chair, 1995-96, American Society of Mammalogists; American Society of Naturalists; Cooper Ornithological Society, Book Editor, since 1995, Board of Directors, 1993-96, *The Condor*; Buell/Braun Award Subcommittee, since 1996, Future Meetings Committee, 1994-1996, Buell Award Subcommittee, 1986-87, Ecological Society of America; Entomological Society of America; Organization for Tropical Studies; Sigma Xi; Society for the Study of Evolution; The Wildlife Society; and the Wilson Ornithological Society.

Research Interests: Plant-animal relationships, vertebrate community dynamics, life-history characteristics of vertebrate populations, role of animals in plant succession, role of food in structuring vertebrate communities, vertebrate reproductive ecology, habitat selection of vertebrates, neotropical migratory warblers, periodical cicadas, gypsy moths, black bears, Belize, Korea.

Honors: Fellow, AAAS; Fellow, American Ornithologists' Union; Phi Beta Delta; and Phi Kappa Phi Honor Society.

Goal Statement: Although I have been a member for over 20 years, I have not previously participated in the work of the Society. Thus, I would hope to bring some fresh perspectives to renew the Society as we move into the next century.

Richard K. Zimmer-Faust

Current Position: Associate Professor, Department of Biology, University of California, Los Angeles, since 1995.

Education: B.A., Biology, University of California at Santa Barbara, 1976; Ph.D., Neurobiology, University of California at Santa Barbara, 1982.

Professional Experience: Assistant Marine Scientist, Marine Science Institute, University of California at Santa Barbara, 1984-88; Senior Marine Scientist, Marine Environmental Sciences Consortium, Dauphin Island, Ala., 1988-91; Assistant Professor, Department of Biology, University of Alabama, 1989-91; Visiting Research Assistant, Friday Harbor Laboratories, University of Washington, 1989-91; Assistant Professor, Department of Biological Sciences and Marine Science Program, University of South Carolina, 1992-95; Associate Professor, Department of Biological Sciences and Marine Science Program, University of South Carolina, 1995-96.

Major SICB Divisional Affiliation: Ecology and Evolution

SICB Activities: Participation in the "Compleat Crab" symposium.

Other Memberships: Member, American Association for the Advancement of Science; American Society of Limnologists and Oceanographers; Ecological Society of America; Association for Chemoreception Science; National Subcommittee on "Toxic Substances and Pesticides," U.S. Environmental Protection Agency, 1989; Co-Organizer, National Workshop, "Causes and Effects of Environmental Contaminants," U.S. Environmental Protection Agency, 1991; Organizer, Chemoreception and Chemical Defense Symposium, Larval Ecology Meetings, 1993; and Member, Editorial Board, *The Biological Bulletin*, since 1995.

Research Interests: Sensory ecology and physiology; behavioral ecology; role of environmental, physical and chemical factors in regulating predator-prey interactions, marine larval recruitment, and patterns of motility among micro-organisms.

Candidates for the SICB General Election (continued)

Candidates for Member-at-Large

Mark Q. Martindale

Current Position: Assistant Professor, Department of Organismal Biology and Anatomy, University of Chicago, since 1990.

Education: B.A., 1981, New College of the University of South Florida, Sarasota, Florida; Ph.D., 1985, University of Texas, Austin, Texas.

Professional Experience: Postdoctoral Associate, University of Texas, 1985-86; Co-Instructor, Invertebrate Zoology, Duke University Marine Laboratory, 1986; Postdoctoral Associate, Harvard Medical School, 1986-90; Instructor, Marine Molecular Biology and Biotechnology, Duke University Marine Laboratory, 1993; and Instructor, Neurobiology and Developmental Biology of the Leech, Marine Biology Laboratory Summer Course, Woods Hole, Mass., 1996.

SICB Activities: Co-organizer of symposium, 1994.

Honors: Research and Career Development Award, University of Texas, 1983; Young Investigator of the Year, Society of Developmental Biologists, 1985; Young Investigator of the Year, runner-up, Society of Developmental Biologists, 1988; and N.I.H. N.R.S.A. Postdoctoral Fellowship, Harvard Medical School, 1987-90.

Research Interests: Development of annelids, molluscs, ctenophores, cnidarians, and nemertines; cellular, molecular and evolutionary biology of pattern formation; and evolution of development, invertebrate embryology and regeneration.

K. Ranga Rao

Current Position: Professor of Biology, Director of Center for Environmental Diagnostics and Bioremediation, and Dean of the College of Science and Technology, University of West Florida.

Education: B.S., 1958, M.S., 1961, and Ph.D., Andhra University, Visakhapatnam, India.

Professional Experience: Postdoctoral Associate, Tulane University, 1967-72; Assistant Professor, Biology, University of West Florida, 1972-75; Associate Professor, Biology, University of West Florida, 1975-78; Professor, Biology, since 1986, University of West Florida; University Research Professor, since 1986, Director, Center for Environmental Diagnostics and Biomediation, since 1990, Dean of the College of Science and Technology, since 1995, University of West Florida.

SICB Activities: Co-Organizer of symposia, 1974 and 1981.

Other Memberships: The Crustacean Society; Sigma Xi; International Pigment Cell Society; American Association for Advancement of Science (AAAS); Associate Editor, *Journal of Experimental Zoology*; Consulting Editor, *Pigment Cell Research*; Editorial Board Member, *The Biological Bulletin*; Review Panels, NSF-Presidential Young Investigator Awards, EPA-Environmental Biology; Organizer, International Pigment Cell Conference, 1986 and 1990; International Symposium on Comparative Endocrinology, 1989; International Marine Biotechnology Conference, 1991; and Fellow, AAAS.

Research Interests: Crustacean physiology, biochemistry, and endocrinology; neuropeptide structure-activity relations; pigment cell biology; environmental toxicology.

New Society Officers Elected

The Society for Integrative and Comparative Biology's Secretary, Susan E. Peters, announces the following results of the General Elections, held in the fall of 1995:

Program Officer 1996-98	William Bernis University of Massachusetts
Secretary-Elect 1996	Thomas G. Wolcott North Carolina State University
Member-At-Large 1996-98	Cheryl Ann Butman Woods Hole Oceanographic Institute

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Officers

Steve Nowicki

Chair 1996-98

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Message from the Chair, Steve Nowicki

Let me begin by extending an enthusiastic "thank you" on behalf of us all to Dave Duvall, who served us well as DAB Chair for the past three years. Dave did much for the DAB during his tenure, especially working to boost participation in DAB activities at recent SICB meetings. As many of you know, Dave is now Second President-Elect of the Animal Behavior Society. I am sure he will continue to serve the DAB unofficially as he moves into his new and important responsibility with the ABS.

I hope to continue to build participation in the DAB at future meetings. For many of us, the SICB meetings provide an important alternative venue for meeting colleagues and presenting recent findings. In some cases, our field seasons or other obligations make attending the summer ABS meetings difficult. As the SICB explores a new time for its meetings in early January, presenting our work through the DAB may become even more convenient. But the SICB offers something unique even for those of us who regularly attend the summer ABS meetings, as I do. That "something" is embodied in the second initial of the Society's new acronym, the "I," which stands for "Integrative."

My own interests in animal behavior have led me at various times to work on problems that are equally relevant to those interested in functional morphology, endocrinology or ecology. I

am sure many of our members have had the same experience. For me, the value of participation in the DAB comes from the simple fact that in one meeting I can interact with colleagues

I hope to continue to build participation in the DAB at future meetings. For many of us, the SICB meetings provide an important alternative venue for meeting colleagues and presenting recent findings.

in each of these areas, hear their newest ideas, and have them listen to my own work. Those of us studying behavior (perhaps the most interdisciplinary subject of all) can capitalize on the explicitly interdisciplinary nature of the SICB through our participation in the DAB. I also hope to continue to build strong links between the DAB and ABS through joint symposia and other programs.

I encourage each of you to contact me with your ideas for symposia or other initiatives that you feel should be supported by the DAB. As the SICB moves into the future, I hope we in the DAB can contribute strongly. I look forward to representing you, both as a member of the Executive Committee of the SICB and as Liaison for the SICB to the ABS.

DAB Election News

The election for DAB Secretary will be conducted through the Fall issue of the SICB Newsletter. The three-year term for the newly elected Secretary (1997-99) will begin following the annual DAB Business Meeting in December 1996. If you are interested in being nominated or if you would like to suggest a potential nominee, please contact Steve Nowicki. Nominees will be selected by June 1996.

Meetings of Interest

Animal Behavior Society Pre-Meeting Symposium

July 31-Aug. 2, 1996, Northern
Arizona University, Flagstaff

The topic is "A Synthetic Approach to Studying Animal Cognition: Examples from Specialized Domains." For more information, contact Russ Balda at 520/523-4307 or by fax, 520/523-7500, or by e-mail address at Russell.Balda@nau.edu.

1996 Meeting of the Animal Behavior Society

Aug. 3-8, 1996, Northern Arizona
University, Flagstaff

Information about the meeting is

available on the World Wide Web at <http://www.nau.edu/~biology/abs.html> or contact Con Slobodchikoff at 520/523-4307 or by fax, 520/523-7500, or by e-mail address at Con.Slobodchikoff@nau.edu.

1996 Meeting of the International Society for Comparative Psychology

Aug. 14-16, 1996, Concordia University, Montreal, Canada

For more information, contact Nancy K. Innis, ISCP Program Committee, University of Western Ontario, London, Ontario, Canada N6A 5C2 or by e-mail address at innis@uwo.ca.

6th International Behavioral Ecology Congress

Sept. 29-Oct. 4, 1996, Manning Clark Centre, Australian National University, Australia

A number of pre- and post-conference tours are planned. To receive the registration circular and call for papers, contact ACTS, GPO Box 220, Canberra, ACT, 2601, Australia, or fax them at 616/257-3256. For further information on the scientific program, contact Andrew Cockburn, Botany and Zoology, Australian National University, ACT, 0200, Australia, or by e-mail address at isbe6@anu.edu.au.

Message from the Secretary, Anna E. Ross

I will not be seeking a nomination for another term as DAB Secretary. After all, I've been doing this since 1988 (Good grief, it's been 9 years). I have genuinely enjoyed serving as DAB Secretary. Over these years, we've been through several changes in SICB. Now that the Society is "back on track" and the dust has settled, it's time to give someone else a chance to contribute as Division Secretary.

A fresh perspective will enable our Division to take better advantage of its potential. For example, we can have the DAB newsletter available through the World Wide Web for access to up-to-date information on jobs, grants, research and teaching tips. The DAB Secretary can also work with the other officers and DAB members to recommend possible paper sessions, symposium topics, and help to determine the goals of the Division.

If you are considering running for DAB Secretary, I recommend it. For one thing, you'll find it provides a fine opportunity to get to know more of your colleagues. You need not feel that you don't have the time. Since you are already "networking" with your fellow biologists at meetings, through research collaborations, etc., you'll find the additional demands on your time are actually minimal.

By the way, I'm thriving in my teaching position here at Christian Brothers University. I even have the chance to teach Animal Behavior. As my colleagues and buddies from grad school days know, I tend to get so immersed in teaching that other activities get little attention. Nevertheless, I look forward to a continuing association with DAB-SICB, and I hope to see you at some of the future SICB and ABS meetings.

1995 DAB Best Student Paper Awards Announced

Papers Presented at the December 1995 Annual Meeting in Washington, D.C.

Best Student Paper Award (Oral Paper)

Bernard Lohr

Duke University, now at University of Maryland

"Gaps, Ranges, and Sequencing in Bird Song, Acoustic Frequency Cues and Song Recognition in Carolina Chickadees"

DAB Best Strong Inference Paper Award

Melissa Hughes

Duke University

"Deception With Honest Signals: The Role of a Visual Signal in Aggressive Interactions Between Snapping Shrimp"

Plan Now for the 1996 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. For more information, see any of the following:

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 SICB 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 Steve Nowicki.*

Mini-Symposia

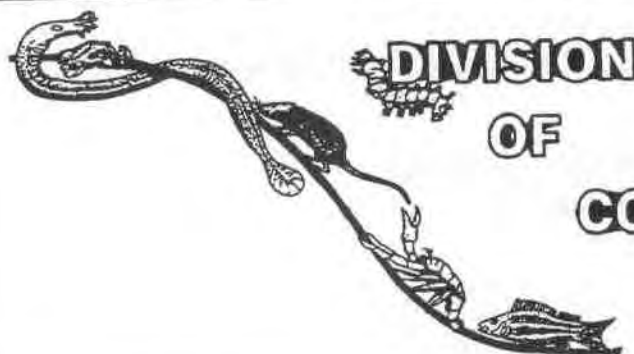
Do you want to address a "hot topic" at a future SICB meeting? Do you need a shorter lead time than the two years required for a symposium? You can work with our Program Officer to put together about seven speakers for a dedicated oral-paper session.

SICB can publicize this on the transmittal form to solicit related papers. "Mini-symposia" would not necessarily require publication in the *American Zoologist*.

Request for Symposia Ideas

Brent M. Graves and Steve Nowicki are actively seeking proposals for symposia at future SICB meetings.

We are interested in building interest and participation in SICB and in our Division. Please contact one of them if you have an idea for a DAB symposium.



**DIVISION
OF**

COMPARATIVE

ENDOCRINOLOGY



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Message from the Chair, F.M. Anne McNabb

First, thanks to Walt Dickhoff, on behalf of all of us in DCE, for his excellent leadership as Chair of the division during the last two years. Walt kept me informed of division activities during my time as Chair-Elect and that was a great help as I assumed the duties of the Chair. I will try to do the same for Bob Dores, our current Chair-Elect.

With this spring newsletter you will find information about our nominees for DCE Program Officer and a new At-large Representative for the Council of the International Federation of Comparative Endocrinological Societies (IFCES). We have two representatives on the Council, one elected and one who is the DCE Chair at the time of the international meeting. On behalf of the division, thanks to those on the Nominations Committee for their efforts in providing us with a slate of candidates. The committee included Steve McCormick (Chair), Bob Denver and Brian Tsukimura.

The number of contributed papers at the 1995 Washington, D.C., meeting dropped from the high at the St. Louis

include a considerable amount of endocrinology: "Developmental Endocrinology of Non-Mammalian Vertebrates," organized by Bob Thommes and August Epple, and "Responses of Terrestrial Invertebrates to Variation in Temperature and Water Availability," organized by Jon Harrison. Papers related to those symposia will be grouped under titles related to the symposia.

We would like to encourage members of the Division to talk with colleagues in their fields and to organize mini-symposia of contributed papers.

In addition, we would like to encourage members of the Division to talk with colleagues in their fields and to organize mini-symposia of contributed papers. This strategy was very successful in St. Louis. If you can get as many as five to six people to agree to submit papers that would fit together in a session, please inform our Program Officer, Stacia Sower, of your coordinated efforts and of the title for the mini-symposium. You also may want to send e-mail to others in your field with the possibility of stimulating the submission of additional related papers.

I hope everyone will try to recruit a new member for the Society and DCE this year. If you have any concerns or issues you wish to raise in the Division, don't hesitate to contact me, preferably by e-mail (happy@vt.edu).

I hope everyone will try to recruit a new member for the Society this year.

meeting. That suggests the efforts of senior DCE members in recruiting participants were a key part of the St. Louis success.

There are at least two symposia for the 1996 Albuquerque meeting that

Report from the Secretary, Henry John-Adler

Minutes of the Business Meeting, Washington, D.C., December 1995

Our meeting was opened by Division Chair Walt Dickhoff with good cheer and encouraging announcements. Financially, the Society is secure and from this perspective is operating well.

Society membership has stabilized at about half of its 1990 level, indicating that the recruitment of new members is once again balancing attrition. Walt encouraged us to actively solicit new members and in so doing to emphasize the benefits of membership, which include free and reduced-price journal subscriptions.

The Washington meeting was the penultimate end-of-year meeting and the last under the banner of the American Society of Zoologists. After Albuquerque in December 1996, annual meetings scheduled for Boston (1998), Denver (1999), and future sites are planned to be held in January. (Due to the change in schedule, there will not be a meeting in the calendar year of 1997.)

At those meetings, the Society will be known as the Society for Integrative and Comparative Biology. Hopefully, our Division of Comparative Endocrinology will contribute strongly to those meetings as we usually have done in the past, in contrast to the situation in Washington where our number of contributions was only about half of the level it was in St. Louis.

Walt announced two new journals that will publish material of broad interest to our Society. The first, *Experimental Biology On-Line*, will initially be a two-year experiment designed to test the feasibility of a rapid publication medium.

The second, *The Journal of Integrative Biology*, will be published by a commercial publisher who concluded that there was a profitable market niche to be filled. Although the format and scope of the new journal are apparently still under negotiation, one thought was that this journal would publish broadly integrative animal and plant material akin to that found in such journals as *Physiological Zoology*, *The Journal of Experimental Biology*, and *Functional Ecology*.

Attending members of DCE envisioned this new journal as a potential competitor and thus a threat to *General and Comparative Endocrinology*, and for that reason the discussion was dominated by apprehension and considerable concern about the new journal. (An alternative view was that the new journal would give us endocrinologists a welcome and useful outlet to address an integrative audience with our papers.)

However, as Jim Hanken explained to us, the issue is not whether we wish to encourage the initiation of this journal — the publisher has already made that decision in the affirmative. Rather, the issue is whether or not our society wishes to join others in sponsoring the new journal.

New officers and future meetings were announced. Anne McNabb is our current Division Chair, Bob Dore is the Chair-Elect, Stacia Sower is the Program Officer, and Henry John-Adler is the Secretary.

Future Society meetings will be held in Albuquerque, Boston and Denver, in that order, and several regional meetings are planned for 1996.

The Midwestern regional meeting will be held in Milwaukee in March, the Western regional will be in Berkeley on March 22-24, and the Eastern regional will meet at Mountain Lake near Blacksburg, Va., Oct. 4-5, and will encompass comparative endocrinology and physiology.

Our division will sponsor or co-sponsor two symposia in Albuquerque: "Developmental Endocrinology of Non-mammalian Vertebrates" and "Desert Biology." Beyond that, members should soon develop ideas for future symposia, as these require at least two years of advance planning. Symposium proposals for the January 1998 meeting must be received by Stacia Sower no later than March 1996.

Successful symposia are expected to be highly integrative and of interest to Society members in multiple divisions. Such symposia would serve to re-introduce the excitement and central importance of comparative endocrinology to our fellow zoologists and would help to re-invigorate the Society at large with renewed enthusiasm. There was some thought that contributed papers should be actively solicited to cluster in "mini-symposia" or "satellite sessions" that would complement the major symposia. (Similar formats have been used with apparent success in St. Louis and at meetings of other societies.)

A flurry of announcements of international meetings and symposia on comparative endocrinology ensued. The best I can do in this regard is to encourage you to keep your eyes and ears open for formal notices of these events.

The 1996 business meeting concluded with Anne McNabb (happy@vt.edu) assuming the divisional mantle and with all of us joining Anne in thanking Walt Dickhoff for his efforts on our behalf as Division Chair during the past year. Thanks, Walt, for a job well done.

DCE Candidates for Election

The first position listed is for the elected representative for DCE to the International Federation of Comparative Endocrinological Societies (IFCES). The rest are for DCE divisional officer positions.

Candidates for IFCES Representative

Ernest S. Chang

Education: A.B., Zoology, University of California, Berkeley, 1973; Ph.D., Biology, University of California, Los Angeles, 1978.

Current Position: Professor of Animal Science and Section of Neurobiology, Physiology & Behavior at Bodega Marine Laboratory, University of California, Davis, since 1991; Visiting Professor of Biology, Sonoma State University, since 1986.

Professional Experience: Instructor of Biology, University of California, Los Angeles, 1977; American Cancer Society and NIH Postdoctoral Fellow, Biochemistry, University of Chicago, 1978; Assistant Professor, 1978-85; Associate Professor, 1985-91.

SICB Activities: Organizer, Division of Comparative Endocrinology Western Regional Conference, 1986.

Other Memberships: Fellow, American Association for the Advancement of Science; American Society of Molecular Marine Biology Biotechnology; Crustacean Society; Society Chinese Bioscientists America; World Aquaculture Society.

Research Interests: Chemical mediation of molting and development in insects and crustaceans; interests range from chemical modulation of behavior to molecular endocrinology of hormone receptors.

Walton W. Dickhoff

Education: A.B., Physiology, University of California, Berkeley, 1970; Ph.D., Physiology, University of California, Berkeley, 1976.

Current Position: Professor and Physiologist, School of Fisheries, University of Washington, and Northwest Fisheries Research Center, NMFS, Seattle, since 1987.

Professional Experience: NIH Post-doctoral fellow, University of Washington, 1975-77; Acting Assistant Professor of Zoology, University of Washington, 1977-82; Research Associate, School of Fisheries, University of Washington, 1984-87.

SICB Activities: Local Arrangements Committee Member, Annual Meeting, Seattle, 1980; Organizer, Annual Smoltification Workshops, 1982, 1986, 1990; Co-organizer, Western Regional Conference on Comparative Endocrinology, 1982, 1988, 1995; Division of Comparative Endocrinology Program Officer, 1987-89; DCE Division Chair, 1993-95.

Other Memberships: American Association for the Advancement of Science; Endocrine Society; American Fisheries Society; Society for the Protection of Old Fishes; Acting Editor-in-Chief, General and Comparative Endocrinology, 1979, 1981, 1983-84; and Editorial Board Member, General and Comparative Endocrinology, 1978-91.

Research Interests: Endocrine control of fish development, growth and reproduction, particularly the parr-smolt transformation of salmonids.

See next page

1995 Best Student Papers, Best Posters Awarded

Lucia Magliulo-Cepriano served as Chair of SICB's Division of Comparative Endocrinology Best Student Paper and Poster Award Committee for the 1995 meeting. The following were members of this committee: Marcia Loeb, Tyrone Hayes, Mary Wright, David Borst, Mitsuyo Kishida and Mark Sheridan.

Best Student Oral Paper (Aubrey Gorbman Award)

Donald A. Larsen

"Quantification and Regulation of Thyroid Stimulating Hormone Messenger RNA (TSH mRNA) in Salmon"
D.A. Larson, J.T. Dickey and W.W. Dickhoff

Honorable Mention (Oral Paper)

Steve J. Schoech

"Alloparental Behavior is Correlated with Prolactin Levels in the Cooperatively Breeding Florida Scrub Jay (*Aphelocoma coerulescens*)"

Best Student Poster Paper

Everett L. Evans

"Steroid Feedback in the Male Sea Lamprey"
E.L. Evans and S.A. Sower

Honorable Mention (Poster Paper)

Alex M. Schreiber

"Effect of Thyroxine on Larval Summer Flounder Growth and Metamorphosis"
A.M. Schreiber, J. McArdle, J. Specker, and D. Bengtson

From previous page

Candidates for Program Officer

David W. Borst

Education: B.A. Biology, Reed College, 1969; M.A. Zoology, University of California, Los Angeles, 1970; Ph.D. Biology, University of California, Los Angeles, 1973.

Current Position: Professor of Biology, Illinois State University, Normal, since 1990.

Professional Experience: Postdoctoral Fellow, Department of Zoology, University of California, Berkeley, 1973-76; Assistant Professor, University of Connecticut, Storrs, 1976-85; Associate Professor, Illinois State University, 1985-90.

SICB Activities: Chair, Graduate Student and Postdoctoral Affairs Committee, 1989-93; 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 Post-Doctoral Fellows, 1993.

Other Memberships: American Association for the Advancement of Science; Sigma Xi; Phi Sigma; Nominating Committee, MBL Corporation, 1990; International Association of Astacology; Crustacean Society; Co-organizer, Midwest Conference on Comparative Endocrinology, Illinois State University, 1992.

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

Mark A. Sheridan

Education: A.B., Humboldt State University, 1980; M.A., Humboldt State University, 1982; Ph.D., University of California, Berkeley, 1985.

Current Position: Associate Professor of Zoology and Director of the Regulatory Biosciences Cluster, North Dakota State University, since 1991.

Professional Experience: Assistant Professor of Zoology, North Dakota State University, 1985-91; Visiting Scientist, University of Washington, 1985; Graduate Program Coordinator, Department of Zoology, North Dakota State University, 1986-90; Visiting Scientist, National Marine Fisheries Service, Seattle, 1986, 1988, 1992; Visiting Professor, University of Tokyo, 1994.

SICB Activities: Chair, Graduate Student/Postdoctoral Affairs Committee, since 1994; Division of Comparative Endocrinology Nominating Committee, 1990-91; Chair, DCE Nominating Committee, 1994-95; Best Student Paper Award Committee, 1995; Chair, Best Student Paper Award Committee, 1991-92.

Research interests: Hormonal regulation of growth, development and metabolism.

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Message from the Chair, David Towle

First comes an expression of deep appreciation to Lou Burnett, the Past Chair of the Division. Lou provided superb leadership through a time of major changes, particularly with respect to journal sponsorship and by-law revisions. Thank you, Lou. I look forward to your continuing contribution to the Division as Past Chair.

Sincere thanks also goes to Tim Casey, who has completed his term as Secretary of the Division with distinction. Finally, please offer an enthusiastic welcome to our newly elected Secretary, Karen Martin.

I sense that the Society as a whole is experiencing new vitality. With the energetic leadership of Michael Hadfield, significant changes are taking place — not just in the name of the Society but also in how we function.

I sense that the Society as a whole is experiencing new vitality. Significant changes are taking place — not just in the name of the Society but also in how we function.

believe that programming lies at the heart of a viable professional society, providing an attractive and stimulating program of events for ourselves at annual and divisional meetings.

I applaud the new emphasis on program planning in the Society, including the innovative proposals of the Program Advisory Committee and the efforts by incoming SICB Program Officer Willy Bemis to increase coordination between divisional Program Officers.

Now is a great time to enlist new members in DCPB.

Now is a great time to enlist new members in the Division of Comparative Physiology and Biochemistry. As the largest division of SICB, our energy is an important contribution to the energy of the Society. Please consider recruiting new members this spring, emphasizing the exciting symposia scheduled for Albuquerque in December 1996 and in the works for Boston in January 1998. DCPB Program Officer Nora Terwilliger describes them below.

Finally, let me invite your individual participation in the business of the Division. As you have ideas for programming or for any improvement in how we reach out to present and potential members, please let me know about them. My e-mail works very well: towle@lfc.edu. We are also working on a web page for DCPB and will keep you posted on its progress.

DCPB and DCE Plan Regional Meeting

A regional meeting is being planned for the Division of Comparative Physiology and Biochemistry (DCPB) and the Division of Comparative Endocrinology (DCE).

It will take place on a Friday evening, Saturday, and Sunday morning and is being hosted by Virginia Tech, Radford University and Roanoke College. The exact location and dates are still being negotiated but will be in the vicinity of either Roanoke or Blacksburg, Virginia, on either Sept. 27-29 or Oct. 4-6, tentatively. We are making a big effort to keep costs to a minimum.

For more information, contact Alan Heath, Department of Biology, Virginia Tech, Blacksburg, VA 24061, or e-mail him at aheath@vt.edu.

Report from the Secretary, Karen Martin

Minutes of the Business Meeting, Washington, D.C., December 1995

The meeting was called to order at 5:30 p.m. by Lou Burnett, Chair. Minutes were approved with the correction that Nora Terwilliger is Program Officer, not Chair-Elect.

Changes in the bylaws: Three proposed changes included adding a new officer, the "Past Chair," for consistency and easy transitions; providing for a mail vote for all the members to make amendments to the bylaws; and including language for turnover of editorial board of the journal, *Comparative Biochemistry and Physiology*, every 3 years, with the possibility of one re-election. There was no discussion; all questions passed unanimously.

The Bartholomew Award was discussed. (See separate article.) The Program Officer, Nora Terwilliger, gave her report. (See separate article.) The Educational Council is updating the *Careers in Animal Biology* pamphlet. Quotes, suggestions, or willingness for interviews should be sent to Sue Cook at scook@hboi.edu.

Peter Hochachka, editor of *Comparative Biochemistry and Physiology*, described the current status of the journal. Last year 965 manuscripts came in from 50 countries. He encouraged more submissions from U.S. authors and thanked the membership for its support.

Charlotte Mangum, editor of *Physiological Zoology*, reported that the editorial offices have moved to the College of William and Mary in Williamsburg, Va. Greg Snyder is the associate editor. There will be a format change to

a double-column, large page, which will save money. Potential authors should read the new instructions in the January 1996 issue. A round of applause expressed appreciation for Warren Burggren's work over the years as editor of this journal.

The new Graduate Student/Postdoctoral Affairs Representative, Brian Gaschen, was introduced.

Jim Hanken, the new editor of *American Zoologist*, reported on the many changes occurring with the journal. The main thrust is still symposia, and he will strive to improve the review process and other aspects of the publication. He advised members to "think big" when considering the scope for symposia topics and to make these attractive to this and other divisions, pinpointing major topics and current issues.

There was a short discussion of the meeting fees: \$70 for grad students was deemed "outrageous." The Society subsidizes approximately \$85,000 for the meeting, but there is an awareness of this problem. Malcolm Gordon stated that all graduate students in this division who asked for travel help were granted some support from the \$20,000 available.

Finally, Lou Burnett presented a plaque to Tim Casey in appreciation for his work as Division Secretary and introduced the new Chair of the Division, David Towle.

1995 Best Student Paper Awards, Best Poster Awards Announced

As a sign of the high level of science being produced by our younger members, I am pleased to announce the Best Student Paper Awards and Best Poster Awards for the 1995 meeting in Washington, D.C. The first-place winners will receive back copies of *Physiological Zoology* courtesy of journal editor Charlotte Mangum. Many thanks to the judges committee headed by Bill Zamer.

First Place, Best Paper Award

Adrienne Williams, University of California, Irvine
"The Effect of Desiccation Selection on Discontinuous Ventilation in *Drosophila melanogaster*"

Second Place, Best Paper Award

Michael Tu, University of Chicago
"High-speed Video Analysis of the Control of Wing Kinematics by Two Steering Muscles of the Blow Fly, *Calliphora*"

First Place, Best Poster Award

Fred Simmons, University of California, Irvine
"Physiology of the Trade-off Between Egg Production and Longevity Revealed Through Caloric Manipulation"

Second Place, Best Poster Award

Susan Wieting, San Francisco State University
"Thiosulfate Permeability of the Epithelial Tissues of *Urechis caupo*"

—David Towle, DCPB Division Chair

Message from the Program Officer, Nora Terwilliger

The 1995 Washington, D.C., meeting was filled with excellent symposia, papers and posters and garnered good media coverage as well. You probably saw the *Science News* cover photo and feature article "Looking for Oxygen" (2/10/96), dealing with the problems of hypoxia discussed by several speakers in our "Molecules to Mudflats: Biological Adaptations in Estuaries" symposium.

The "Avian Biology" symposium was mentioned in the previous week's issue. Since communication — not just among ourselves but with other scientists and the general public — is a key goal of our Society, this publicity for the meeting is a positive sign of our ongoing viability. Thanks to all of the symposia organizers for their creative efforts and hard work, and to speakers, session chairs, student volunteers and audience members for their enthusiastic participation.

We've all experienced remarkable weather since the Annual Meeting. In the midst of yet another deluge here on the Oregon coast, the director of the United Nations Environment Programme came to speak on the ramifications of ... scarce water! As the wind swirled and the rain streamed down the windows of the Boathouse Auditorium and the ocean surf pounded against the dock, Dr. Fox-Przeworski talked about global needs for clean water and efforts to maintain this endangered resource.

Water, or lack thereof, will be a regional theme of our December 1996 Albuquerque meeting. Just as the D.C. meeting locale provided a focus on the Chesapeake Bay estuary in the "Molecules to Mudflats" symposium, so the Albuquerque meeting will spotlight the desert biology of the Southwest.

"Responses of Terrestrial Invertebrates to Variation in Temperature and Water Availability: Molecular, Organismal and Evolutionary Approaches," organized by Jon Harrison and John Phillips, will be one of our DCPB-sponsored symposia. The broad approach to the interconnected problems of dealing simultaneously with thermal and hygric conditions, especially the hot and the dry, will have wide appeal.

Another Albuquerque symposium sponsored by DCPB, "The Biology of Lipids: Integration of Structure and Function," is being organized by Allen Gibbs and Lisa Crockett. This symposium promises to provide an integrated update of various aspects of lipid biology at a time when there has

been a rapid expansion of new techniques and understanding of lipid function (including water balance).

Each symposium will also feature a corresponding contributed paper and poster cluster to promote enhanced discussion among participants with similar research interests.

Looking ahead to Boston in January 1988, we have several DCPB symposia in the planning stages, thanks to enthusiastic volunteer organizers and some creative brainstorming in Washington, D.C. Bill Zamer and Tim Bradley are developing a symposium on "Evolutionary Physiology." It will feature different organisms, approaches and questions and thereby provide a synthesis of the strengths of our Division of Comparative Physiology and Biochemistry while also illustrating its connections to the rest of biology and the other SICB divisions.

Karen Martin, DCPB, and Richard Strathmann, Division of Invertebrate Zoology, are co-organizing a symposium on aquatic animals that spawn out of water. Topics will include ecology, developmental biology, physiology and molecular biology. This should be a fun one also, blending DCPB and DIZ interests on a subject that will perhaps generate enough images and ideas to even draw Gary Larson out of retirement.

Also at Boston, Charlotte Mangum will introduce the first in a series of mini-workshops on "Major Questions in Animal Biology," designed to address a Society-wide audience and provide general, current information useful for teaching. The focus of the Boston workshop will be "The Origin and Functional Evolution of Circulatory Systems" and will feature presentations by Ed Ruppert, Michael LaBarbera, George Bourne, Greg Snyder and others.

Other DCPB related events: Start planning for a trek to Skukuza Camp, Kruger National Park, South Africa, for an International Conference on Comparative Physiology and Biochemistry Aug. 24-31, 1997. Pack posters, pith helmets and photography supplies. We gave you preliminary information about this conference, organized by Willie van Aardt, Department of Zoology, Potchefstroomse University, South Africa, in D.C. and will send more as it arrives.

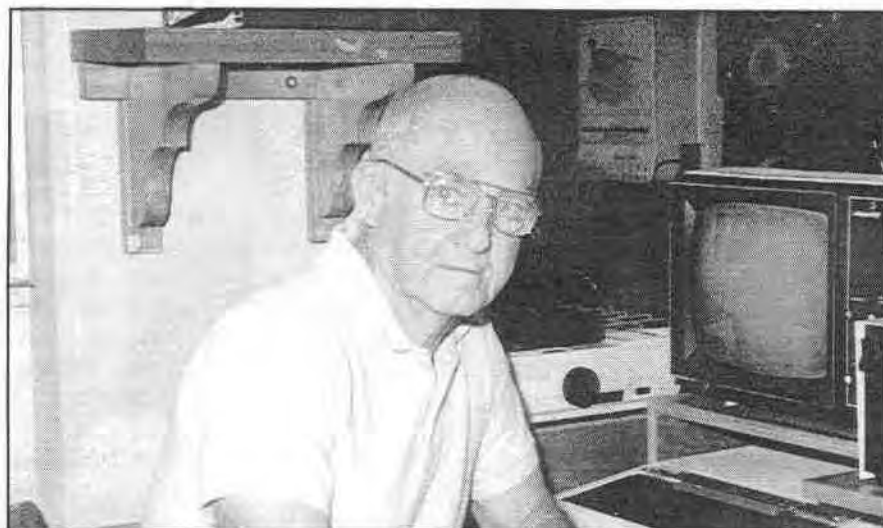
Mark your calendar for summer 1999, the Fifth IUBS International Congress of Comparative Physiology and Biochemistry in Calgary, Alberta, Canada. Contact your program officer NOW with ideas for a symposium.

Bartholomew Award

Congratulations to the winner of the George A. Bartholomew Award for 1995, Dr. Michael Dickinson of the University of Chicago.

His presentation, "Flapping for Flight Forces: The Mechanics and Physiology of Steering in Flies," was a highlight of the D.C. meeting

with an enthusiastic, standing-room-only audience. The award is presented annually to a distinguished young investigator with less than seven years post-doctoral experience in comparative physiology, comparative biochemistry and related functional fields.



George A. Bartholomew, for whom the Bartholomew Award is named

The division is building an endowment for this award, which honors George A. Bartholomew, a gentleman and scholar of the highest rank who was involved in the training and education of many members of this division.

We hope to have \$20,000 for this endowment, which should be possible thanks to a generous anonymous donor who will match up to \$10,000 that the members provide. Consider this a challenge: In addition to the funds currently available, if every member of this division contributes \$10, we will meet this match.

If Bart ever wrote a letter for you or read one of your manuscripts, perhaps you should consider contributing a bit more.

Please make checks payable to the **Society for Integrative and Comparative Biology, Bartholomew Award Fund**, and send these to SICB, P.O. Box 809278, Chicago, IL 60680-9278.



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Message from the Chair, John B. Morrill

Congratulations to Louise Luckenbill-Edds for her very fine symposium on "Forces in Developmental Biology Research: Then and Now," and thanks to the nine symposium speakers — Fred Churchill, Jack Collier, Susan Ernst, Mimi Halpern, Jane Maienschein, Linda Ross, Billie Swalla, Richard Whittaker and John Wourms — for their fine historical sketches and reviews of their own current research in the day-long symposium at the Annual Meeting.

Special thanks to Louise Luckenbill-Edds and Lorette Javois for all they have done for us during their terms as divisional Program Officer and Secretary.

Congratulations to our newly elected officers: John Wourms, Chair-Elect; Billie Swalla, Program Officer; and Charles Ellis, Secretary. Billie may

have to become our operational program officer during most of the coming year since Louise will be on sabbatical leave in Europe until the fall.

Were you to read this entire newsletter, you would see numerous changes within each division and the whole Society.

Were you to read this entire newsletter, you would see numerous changes of names, policy, meeting times, funding and other changes within each division and the whole Society. Our next Annual Meeting will be held in Albuquerque, N.M., Dec. 26-30, 1996. After that, future meetings are scheduled for the first week of January.

1995 Best Student Presentation Award Announced

Presently, this award is accompanied by \$100 to the recipient from the Division's operating budget. In the future, we plan to supplement the award with copies of 10 to 15 back issues of the *American Zoologist* that have major developmental biology symposia. We are negotiating this with the new editor of the Society's journal, which will have a new name as well as new editorial policies.

Best Student Presentation

Karen A. Becker, Rutgers University

"Reorganization of the Actin-Based Cytoskeleton During Cortical Granule Exocytosis in the Zebrafish Egg."

Report from the Secretary, Charles H. Ellis, Jr.

Minutes of the Business Meeting, Washington, D.C., December 1995

The business meeting of the Division of Developmental and Cell Biology (DDCB) was held Dec. 29, 1995, in Washington, D.C. As John Morrill opened the meeting, he noted that this would be the last as a Division of the American Society of Zoologists. The Society's redesignation as the Society for Integrative and Comparative Biology begins a new era.

He announced the election results and welcomed the new officers: John Wourms, Chair-Elect; Billie Swalla, Program Officer; and Charles Ellis, Secretary — and offered the Division's thanks to the outgoing Secretary and Program Officer, Lorette Javois and Louise Luckenbill-Edds, respectively. With all these positions filled, there will be no need for an election in 1996. In 1997, we will begin to hold elections in the spring.

The Secretary's report on the previous business meeting was approved.

Pat Glas, our Graduate Student and Postdoctoral Representative, presented concerns that arose in that group's meeting. Responding to proposals for changes in the meeting format, the graduate/post-doc group strongly favors retaining oral paper presentations as the primary mode for

Concern was voiced over the Division's relatively low number of contributed papers and low attendance at this SICB meeting. In the future, we might try to appeal to members within 500 miles of a meeting site by organizing mini-symposia involving persons from that area.

scientific contributions. Pat asked for the Division's support in this regard. Discussing this issue, members noted the Society has always provided a venue for beginning investigators to present their work in the same sessions with senior colleagues. The consensus was that contributed paper sessions should continue to be a central focus of SICB Annual Meetings.

Concern was voiced over the Division's relatively low number of contributed papers and low attendance at this

SICB meeting. One possible reason was that both the Cell Biology and Neuroscience meetings were also in Washington during the previous month. In the future, we might try to appeal to members within 500 miles of a meeting site by organizing mini-symposia involving persons from that area and by asking if the local Regional Developmental Biology Conference would be willing to reschedule and meet with us.

Jim Hanken, newly appointed Editor of *American Zoologist*, outlined the plans that he and the Editorial Board have for the journal, including a move to more rapid publication.

John Morrill pointed out that the 1996 Albuquerque meeting will be the last December meeting. After that, January meetings will be held in Boston in 1998 and in Denver in 1999.

John Morrill pointed out that the monetary component of the Best Student Paper Award remains at \$100 and that the low divisional budget precludes any increase. Other divisions have added such things as book awards to their recognition of the best paper. John said that the SICB Executive Committee was told that the Society and Allen Press feel the need to pare the stock of *American Zoologist* back issues. He will look into our obtaining enough copies of issues with some of our most important (and still relevant) past symposia so that we could present a set of these as an additional part of the award.

The last item of the business meeting was a report from Jim Hanken, newly appointed Editor of *American Zoologist*. He outlined the plans that he and the Editorial Board have for the journal. Among the major changes will be a move to more rapid publication, which will transfer review of symposia manuscripts to the journal editorial level, with symposia organizers no longer responsible for this function. In this regard, the journal editors will also work with program officers in symposium design. These and other changes for our journal will be presented in the main section of a forthcoming *SICB Newsletter*.

Message from the Program Officer, Billie J. Swalla

Greetings from the new DDCB Program Officer! Louise Luckenbill-Edds is on sabbatical in London this year and felt she wouldn't be able to continue as Program Officer, so she handed the reins over to me, who was then Program Officer-Elect, at the SICB Annual Meeting in December. For those of you who weren't able to attend, the symposium that Louise organized, "Forces in Developmental Biology — Then and Now," was a great success. The speakers integrated historical perspectives with ongoing exciting current research. Many thanks to Louise and to all the speakers for their participation.

Now, we're looking ahead and planning programs for Albuquerque and even Boston in 1998. Judy Venuti at Columbia University is organizing a symposium on "Myogenesis in Metazoans" to be held at the Boston meetings, and there will likely be another symposium on "Evolutionarily Conserved Signaling Pathways and Transcription Factors During Metazoan Development."

Mark Martindale at the University of Chicago has organized an excellent symposium for Albuquerque with a "Development and Evolution" theme. Mark agreed to this with very short notice and limited funds for speakers, so we should all thank him and the speakers for their contributions.

The following speakers and their topics are slated for the meetings:

William R. Jeffery, University of California at Davis, "Evolution of White Eyeless Cavefish"

Barbara Boyer, Union College, "Spiralian Evolution and Flatworm Cell Lineage"

Andrew Cameron, California Institute of Technology, "Set-Aside Cells in Echinoderms"

Linda Holland, University of California at San Diego,

"Evolution of Neural Crest and Anterior/Posterior Patterning in Chordates"

Margaret McFall-Ngai, University of Southern California, "Evolution of Novel Tissues and Organs: Symbiosis in Squid"

Tim Karr, "Evolution of Cytoplasmic Organelles/Symbiosis"

Mark Martindale, University of Chicago, "Cellular and Molecular Control of the Annelid Body Plan"

Richard Emlet, University of Oregon, "Functional Morphology of Marine Invertebrate Larvae"

David Gardiner, University of California at Irvine, "Vertebrate Limb Development"

Mark Martindale at the University of Chicago has organized an excellent symposium for Albuquerque with a "Development and Evolution" theme with very short notice and limited funds.

With this great group of speakers coming, we hope that you all will decide to come and bring your students with you. Attendance was light in our Division at the Washington meeting.

I'll be the Program Officer for the next three years, and I promise you careful planning to prevent overlapping sessions and exciting symposia to stimulate your interests. Please help me out by attending the meetings and encouraging your students to come and present their research. I hope to see you all this December in Albuquerque. Start thinking about those abstracts!!

Message from the Secretary, Charles H. Ellis, Jr.

I hope that our future DDCB newsletter sections will be able to offer useful information beyond the matters of

I hope that our future DDCB newsletter sections will be able to offer useful information beyond the matters of divisional business.

divisional business. In the fall issue, I plan to resume listing summer courses

and workshops in embryology, developmental and cell biology. Anyone who is organizing or knows of such offerings for Summer 1997 should send information to me by late August for inclusion in the fall issue. My address is in the masthead listing of officers.

Although there are space limitations imposed by SICB, I welcome suggestions (and publishable copy!!) for other *SICB Newsletter* items that would be useful and would edify our membership. As we now have a full

complement of officers, including a Chair-Elect, this is the off-year in which we will not need to hold elections.

Our future divisional elections will be held in the spring so that the newly elected officers can make plans to attend the Annual Meeting. Of course this will eliminate the mystery inherent in our elections — the Business Office had the results just in time for "lucky" winners to be informed as they walked in to register at the meeting.

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Chair 1995-96

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Message from the Chair, Howard R. Lasker

Although we are a little tardy in organizing the elections, we now have a slate of nominees for your consideration. I'm writing this one day after the New Hampshire primary, and it's my personal opinion that the choices we are offering you for DEE officers are a great deal more exciting than those the voters in New Hampshire had. If you do not already know our candidates, please look over the biographical information and above all, please VOTE!

Those of you who were in Washington, D.C., for the Annual Meeting already know that the meeting was a great success. DEE did not have as many sessions as I would have liked, but we had a good number of individuals attend and the hallway, dinner and happy-hour conversations made it a really successful meeting.

This meeting stands out in my mind as having had a lot of well-organized and well-attended socials. They provided great opportunities for conversation (and grad students with good foraging strategies didn't have to buy many meals at all). All of the organizers did a great job, and our final meeting as the ASZ makes me very optimistic for the SICB meetings to come.

As I always mention, we are looking

for ideas for symposia or for organized groups of contributed papers, and if you have any ideas — or better yet, want to organize a symposium — please get in touch with one of the Division officers. Another way that we can increase the DEE participation at the meeting is to involve other ecological/evolutionary societies in our meetings.

Now is the time to start thinking about the Albuquerque meeting.

SICB is exploring some possibilities along those lines, and if you are a member of societies like the ASN, ESA, SSE or WSN, please write your society officers and ask them to become involved in our meetings. Increasing the number of DEE types attending our meetings obviously makes the meeting more fun, and it also will help lower the per-capita costs of the meeting.

Finally, now is the time to start thinking about the SICB meeting in Albuquerque. Make sure to include it on your calendar and try to persuade your colleagues to do likewise.

1995 Best Student Paper, Poster Announced

Cindy Hunter chaired the Best Student Paper Award Committee. Assisting Cindy were Mary Alice Coffroth, Howard Lasker, Don Levitan, Tammy McGovern and Peter Smallwood.

They will each receive \$100 and free registration to next year's meeting. R. Nemeth will also receive a book donated by Princeton University Press.

Congratulations to both winners listed below:

Best Student Paper

R. Nemeth

University of New Hampshire

"Multiple Factors Determine the Local Abundance and Population Structure of a Caribbean Damselfish"

Best Student Poster

W. Schew

University of Pennsylvania

"Growth and Structural Responses of Starling and Quail Chicks to Undernutrition"

Report from the Secretary, Don Richard Levitan

Minutes of the 1995 DEE Annual Meeting

Chair Howard Lasker brought the meeting to order.

James Hanken, the new editor for the *American Zoologist*, was introduced and presented his vision for improvements to the journal, as well as requested feedback. James would like to still emphasize publishing symposia, but also would like to see mini-reviews and book reviews and perhaps publish best student award papers. Please send James your comments.

After several years of decline, the Society membership is now stable, but Howard emphasized the need to recruit new members.

It was noted that several members have e-mail addresses that are incorrectly listed. Please look over yours and contact the SICB Business Office with any changes.

Now is the time to submit ideas for symposia at the Boston meeting to be held in January 1998.

As of January 1, 1996, the Division of Ecology has been renamed the Division of Ecology & Evolution.

All requests for graduate student housing were honored this year. Please pass this on to student members or potential student members as enticement for future participation.

DEE Candidates for Election

Candidates for Chair

Don R. Levitan

Education: B.A., Boston University, 1979; Ph.D., University of Delaware, 1989.

Current Position: Assistant Professor, Florida State University.

SICB Activities: Best Student Paper Award, Division of Ecology, 1987; Student paper judge, 1989, 1993-95; Secretary of the Division of Ecology & Evolution, 1994-96.

Research Interests: Evolution and ecology of marine invertebrates, life history theory, population biology, and reproductive biology.

Goal Statement: I joined SICB as a graduate student, and this Society more than any other has provided role models for my professional development, a venue to present my research to a receptive audience, and a network of important colleagues who have facilitated my efforts to integrate a variety of disciplines into my own work. I would like to continue to promote these opportunities for new and established members of our division.

Dianna K. Padilla

Current Position: Assistant Professor of Zoology, University of Wisconsin-Madison.

Research Interests: Ecology and evolution of phenotypically plastic morphologies, ecology of plant-animal interactions, ecology of invading species, and marine and freshwater community ecology.

SICB Activities: Regularly chair sessions at Annual Meetings; Member, Best Student Paper Committee, Los Angeles and St. Louis meetings.

Other Memberships: Secretary-Treasurer of Chapter Board of Sigma Xi.

Goal Statement: I would like to revitalize the Division of Ecology, especially by welcoming the new change to the Division of Ecology & Evolution. With a new name to our Society comes a new charge to demonstrate that we are at the center of a growing field. To this end, recognizing the strengths in ecology, evolution and especially evolutionary ecology among our membership is essential, as is rebuilding and continuing close ties to associated divisions. To that end, I would like to sponsor and support cooperative symposia emphasizing the interface between ecology, evolution and the rest of the Society.

Candidates for Secretary

C. Sarah Cohen

Education: B.A., Biology, Swarthmore College; Ph.D., Zoology, University of Washington.

Current Position: Postdoctoral Researcher, Hopkins Marine Station and Department of Pathology; Dean's Fellowship; Stanford University School of Medicine.

Other Memberships: Western Society of Naturalists; Society for the Study of Evolution; American Association for the Advancement of Science.

Research Interests: Population biology and genetics of marine organisms; evolution of recognition systems and their ecological implications; relationship between dispersal, mating systems, and population structure of native and introduced species.

Goal Statement: The revitalization of the Society as a whole in the past few years is impressive and encouraging. I would like to coordinate the DEE more fully with other sections and continue the trend of integrating molecular and whole organism approaches to biology.

Fredric J. Janzen

Education: B.A., Biology, North Central College, 1985; M.S., Zoology, Colorado State University, 1987; Ph.D., Ecology and Evolution, University of Chicago, 1992.

Current Position: Assistant Professor of Zoology and Genetics, Iowa State University.

SICB Activities: Moderator for various paper sessions; Participant in OTS tropical ecology course #90-1, 1990; Visiting Professor for OTS tropical ecology course #92-1, 1992; Judge for Best Student Paper competition for SSAR, 1994; Chair of the Best Student Paper Committee for the Division of Ecology, 1995.

Research Interests: Experimental evolutionary ecology, molecular ecology, and evolutionary physiology of animals, particularly reptiles and mollusks. The topics are mainly sex determination, cold tolerance, and phylogeography.

Goal Statement: I would like to continue increasing both the level of participation in the DEE and the diversity of symposia sponsored by the Division. These goals may be best achieved by accenting the integrative and comparative aspects of ecology and evolution so that the Division appeals to a wider audience of ecologists and evolutionary biologists, young and old alike.

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Chair 1996-97

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Message from the Chair, Jane Maienschein

When I agreed to run for the Chair of this Division, I was told that the Division had become somewhat less active in recent years. Evidently, we have 20 primary members, of whom nine are regular full members. While we are undoubtedly all terrifically enthusiastic, this information must call into question whether we should (1) disband the Division, with some obvious loss of content, or (2) reconceptualize our focus.

Given the important contribution of John Moore to educational efforts, the broader social concerns of DHPB Secretary Joe Graves, and the wide impact of Ernst Mayr's contributions to the understanding of science, for example, perhaps we should reconceptualize and widen our scope. We might become a Division of Biology in Soci-

ety (too social?) or a Division of Historical, Ethical, and Educational Issues in Biology — both were suggested at the Annual Meeting.

Before moving to an actual ballot, I invite input. Do you care? Do you have any suggestions? What should be our goals, our strategies for achieving them, and our name? Please let me know as soon as possible so that officers can proceed with the appropriate bureaucratic steps.

If we do become a more broad-based, integrative division, we might sponsor a session at the 1998 Boston meeting to launch the effort. One suggestion is to invite the other divisions to contribute to a session on "Why compare and integrate in biology?" Let me know if you have any reactions or suggestions along these lines as well.

Message from the Secretary, Joseph L. Graves, Jr.

Greetings! Let me first say that I agree with Jane's call for simultaneously revitalizing and broadening the charge of the section. While we may be one of the smaller sections in the Society, it is also clear that we may be one of the most important. As we end the 20th century, science has never been more crucial to the well-being of the human species.

Yet, at the same time, the results of specific disciplines are not only removed from the daily experience of the average citizen, but even to scientists of other disciplines. This is, in part, the fault of scientists themselves.

As the newly elected Secretary of

this section, I see part of my charge as helping to communicate the significance of the work of the Society. I see this as both necessary throughout the Society itself and to the public at large. In that regard, I hope that the membership will feel free to communicate areas of concern and interest that should be addressed either by this Division or by the Society at large.

My hope is that part of the revitalization of the section can occur by addressing important issues in the pages of the *SICB Newsletter*. You may reach me at the address listed on this page.

Upcoming Events

- ◆ Forum on Educational Issues in History and Philosophy of Science, or Science in Society, 1997 Meeting.
- ◆ Forum on Integrative Issues in Biology, 1998 Meeting.

Division of Invertebrate Zoology (DIZ)



Message from the Chair, Jan A. Pechenik

It was great to see so many of our Division's members in attendance at the Washington, D.C., meeting. I hope everyone is planning to attend the next meeting in Albuquerque. A highlight for us will be the symposium that Mimi Koehl and Bill Kier are organizing in honor of Steve Wainwright.

Speaking of symposia, it's not too early to start planning for 1999 in Denver; proposals for formal symposia are always nice, of course, but the graduate students and teachers among us would also welcome refresher courses (something about current phylogenetic controversies and resolutions, for example, or a workshop on bringing larvae into the invertebrate zoology laboratory).

Jon Norenburg, our program officer, is eager to hear from you. The earlier we receive your proposals, the better we can advertise the offerings in advance of the meetings.

DIZ moves into the high-tech arena this year. Larry Spencer has volunteered to create a home page for the Division. It might include the DIZ newsletter, announcements about summer courses, jobs, postdoctoral positions, and funding opportunities; discoveries of new phyla and newly discovered information about "old" phyla, with full

citations; and links to other relevant sites. Our new web site address is: <http://oz.plymouth.edu/~biology/dizie.html>. If you have suggestions about exploiting this new medium to full advantage or are interested in helping out, please contact Larry directly. His e-mail address is larrys@psc.plymouth.edu.

Claudia Mills will be turning the Libbie Hyman Scholarship awards operation over to Gordon Hendler after this year's batch of applications is processed. Many thanks to Claudia for her hard work in this important area. As a reminder, the scholarship of about \$650 is given to a beginning graduate student or senior undergraduate in support of his or her first summer experience at a field station.

I am sure that Gordon would be most pleased to see a record number of applications for next year. Request applications from Dr. Gordon Hendler, Natural History Museum (Life Sciences), 900 Exposition Blvd., Los Angeles, CA 90007; his e-mail address is hendler@mizar.usc.edu.

Lastly, Kerry Clark has created a web site about the Cambrian explosion at the following address: <http://users.aol.com/kbclark/cambrian/>

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The Teacher's Corner, Jan A. Pechenik

Most students lack the ability to summarize information and lack it to an astounding degree. If you have any doubts about this, ask your students to write a one-sentence summary of any single paragraph. It can be a paragraph from the course textbook, a research article, or a piece of popular science writing (something out of Rachel Carson's *Silent Spring*, for example, or an article in *Natural History*).

An acceptable one-sentence summary must obey the following rules: It must contain all the key points of the original paragraph; it must be accurate; it must be self-sufficient — completely understandable to someone who has not read the original; and it must be in the student's own words. Students typically require at least two drafts to get this right; summarizing is not something they seem to get much instruction in or practice doing.

The widespread lack of ability to summarize information explains a lot about the problems we see with student laboratory reports, term papers and essays. Without the ability to summarize in one's own words, there can be no critical evaluation or synthesis; the ability to summarize is a necessary prelude to understanding.

One way to give students more practice in summarizing information is to ask, at intervals throughout the semester,

for one-paragraph summaries of particular lectures or a particular set of lectures.

Sometimes I begin the week by handing out a question about some key issue that will come up over the next few days in class and require students to turn in a brief (one-page maximum) written response by the end of the week. I don't grade these or hand them back to their authors, but students lose a point from their final grade if they turn nothing in. Anything that shows thought is acceptable. Alternatively one might award an extra point to students turning the assignment in. By the end of the semester, summarizing ability improves noticeably.

An additional benefit of this type of an assignment is that the instructor gets weekly feedback on what students think was said in the lecture, so that any widespread misconceptions can be corrected at the start of the next class. The assignment also keeps students thinking about the class material from lecture to lecture, rather than just before the next exam.

If you have tried similar approaches with your students, I hope you will share them, either by writing a column for the next newsletter or by writing to "Dear Libbie," who has been waiting patiently for mail for these many months.

1995 Best Student Paper and Poster Awards Announced

Twenty-one graduate students competed for the Division's Best Student Paper Award, which is a new record.

All of the entrants made excellent presentations, and deciding the winners was no easy task. Hearty congratulations to all.

And special thanks to Daphne Fautin, who chaired the committee; to Donna Wolcott and Jan Pechenik, who served on the committee; and to all who judged the presentations.

It would be wonderful to see even more graduate students entering the competition next year. As added incentive, the first-prize award now includes a choice of \$50 worth of books — kindly donated by Oxford University Press — in addition to the cash award of \$100, and both the first- and second-prize winners will now have their graduate student membership fee — or cash equivalent if they are advancing to full membership — paid by the Division for the following year.

Over the next few months we will be thinking of ways to improve the judging process and give more feedback to each contestant. In the Fall newsletter I plan to publish the criteria used by the judges, so that all entrants can see the key issues on which they will be judged.

If you have thoughts or suggestions about the competition, please send them along. For one thing, we might consider making separate awards for best poster and for best talk. I am also looking for people willing to chair or serve on the committee for the next meeting; please let me know right away if you are interested.

—Jan Pechenik

First Place

Laura S. Corley

Vanderbilt University

"The Vascular Anatomy of the Urochordate *Ascidia interrupta* in Relation to Heartbeat Reversal"

Second prize

David W. McCauley

University of Texas at Austin

"Serotonin Mediates Metamorphosis in Planulae of the Hydrozoan *Phialidium gregarium*"

Adrian M. Wenner

Strong Inference Award

Robert Podolsky

University of Washington

"Effects of the Echinoid Egg Jelly Coat on Fertilization Through Changes in Effective Egg Size"

Message from the Program Officer, Jon Norenburg

Non-vertebrates were extremely well-represented at contributed-paper sessions in Washington, D.C., one of the best showings in years — 49 oral and 19 poster presentations! Well done! Jan pointed out the superb participation by students, and I add my congratulations and thanks for their eagerness.

The DIZ also co-sponsored the following symposia: "Systematics and Biogeography of Marine Biodiversity," "New Frontiers in Barnacle Biology," "Aquatic Locomotion: New Approaches to Invertebrate and Vertebrate Biomechanics," and "Molecules to Mudflats: Biological Adaptations in Estuaries (Applications to the Chesapeake Bay)."

Albuquerque and Boston: In addition to the "Wainwright" festivity mentioned by Jan, the following symposia are planned for future meetings:

That's right! DIZ has no other symposia planned! I approached a few of you over the course of the last year and at the meeting, but only two people approached me with ideas for symposia.

Are you folks taking them elsewhere, just tired of symposia, or what? If you know, please tell me. I know that there is still plenty of stimulating research with invertebrates going on. Formal symposia are nice and they help provide the intellectual "oomph" to a meeting, but informal symposia, such as that organized by Mimi Koehl and Bill Kier, or the workshop style proposed by Jan, can be very spicy, a lot of fun and much less stressful to organize. Frankly, I think the meetings would be improved by fewer formal symposia and more informal ones.

Please keep in mind that the deadline for submitting formal symposia or workshop proposals to SICB is early April, 18 months ahead of the anticipated meeting. However, if you have a great idea and you think you can pull it together, I'm willing to hear from you up until six months before a meeting.

Improving SICB meetings: A lot of effort and thought is going into trying to maximize participation in and productiv-

If you have strong ideas about what brings you to or keeps you from the Annual Meetings or about what would improve them for you, send me an e-mail with your complaints or suggestions.

ity of the SICB meetings. Everything is on the table, from transmittal forms to the structure of the meeting. If you have strong ideas about what brings you to or keeps you from the meetings or about what would improve them for you, send me an e-mail with your complaints or suggestions.

American Association for Zoological Nomenclature (AAZN) — *The International Code of Zoological Nomenclature* is being revised! Got a beef? Now is the time to be heard and the AAZN will see to it that you are. To be in on the action and get your own copy of the *Discussion Draft of the Code* write and send \$3 to: Treasurer, AAZN, c/o National Museum of Natural History, MRC-168, Smithsonian Institution, Washington, DC 20560.

Dear Libbie: Letters to the Editor/Home Page Preview

Surf's up, DIZ home page does the first electronic half-curl on the Internet!! Don't let the information explosion drive you bananas, let it drive you DIZIE.

You say DIZIE? What do you mean? I mean the Division of Invertebrate Zoology Information Exchange home page that resides at the following URL: <http://oz.plymouth.edu/~biology/DIZIE.html>

You guessed right, simply type the above URL in your handy-dandy net browser and do a half-curl to a home page that brings you everything you ever wanted to know about inverte-

brates and were afraid to ask your first professor of invertebrate zoology for fear that he or she would actually test you on it.

I'm planning to make the point of first contact with the home page very simple, so that the surfer can branch off to other pages that might be more graphics-intensive.

In all seriousness, the above URL will take you to a mock-up of what a

possible home page for the Division could be. I need your feedback as to design, other home pages to direct the user to and what kind of information you might expect to find there or wished were there.

At this time, I'm planning to make the point of first contact with the home page very simple, so that the surfer can branch off to other pages that might be more graphics-intensive. Send all comments directly to me: Larry T. Spencer, Natural Science Department, Plymouth State College, Plymouth, NH 03264; e-mail: larrys@psc.plymouth.edu

Report from the Secretary, Donna Wolcott

Minutes of Business Meeting, Washington, D.C., December 1995

The meeting was called to order by President Jan Pechenik.

Announcements

Alan Kohn made a plea for proposals for potential symposia at the January 1998 meeting in Boston. Especially desirable would be themes that cross divisional boundaries and bring together perspectives from multiple disciplines. Deadline is in March 1996. Carole Hickman pointed out that joint symposia pool monetary resources from the co-sponsoring societies.

Vicki Pearce, editor of the journal *Invertebrate Biology*, published under the sponsorship of the American Microscopical Society (AMS) and DIZ, has had a successful first year of publication, with four issues in 1995.

Persons subscribing at the SICB meeting (\$36 regular, \$18 student) will receive all 1995 volumes. Pearce requested DIZ members to recommend subscribing to the journal to their respective institutions' libraries (\$75), and to submit articles for publication. There are no page charges for the first 10 pages, and turnaround time is about eight months, competitive with other journals. A World Wide Web site for the journal is under development.

Minutes of the 1994 DIZ business meeting were approved as published in the Spring 1995 *SICB Newsletter*.

American Zoologist news: Milt Fingerman is retiring as editor, and James Hanken will take over Jan. 1, 1996, with Kristin Lopez as an assistant editor. According to Hanken, the journal is strong and is one of most-cited in biological sciences, but some changes are due.

The charges for pages in excess of 10 will drop from \$150 to \$135 per page, and minimum reprint order will decrease from 300 to 100. The journal is considering publishing work reported in Best Student Paper awards and initiating a teaching section. The review process will change and will now be handled by the editorial office in Boulder to remove lingering — but unfounded — criticism that symposia papers are not reviewed. Hanken also encouraged members to serve as a reviewer, to submit book reviews and to organize symposia, especially on broad topics that involve multiple divisions within SICB. A home page with instructions for authors is under construction.

Messages from the President, Jan Pechenik

Libbie Hyman Award: Applications due by March 1.

Budget: Division receives \$2,000, plus \$1 per member. Of that money, \$1,000 went to co-sponsor two symposia, "Molecules to Mudflats: Biological Adaptations in Estuaries" and "New Frontiers in Barnacle Biology," at this Annual Meeting. Also, \$100 each has been set aside for the

winners of the Best Student Paper and the Adrian Wenner Strong Inference Award.

Membership: The decline in membership has halted, but a need to rebuild still exists. Selling points are moving meeting time to early January, *American Zoologist* with membership, *Journal of Experimental Biology* free online for two-year trial period, and *Integrative Biology* free online. Encourage grad students to join and be eligible for \$1,000 seed-money awards. Program is under development by SICB, with a \$5,000 pool of funds.

Symposia or workshops for 1998 Boston SICB annual meeting: Please submit proposals by mid-March to qualify for funding. SICB will assist with requests.

SICB Newsletter: The newsletter features the additions of two new columns, "Teacher's Corner" and "Dear Libbie." Members are encouraged to share their teaching ideas (e.g., lab exercises that work or outside-of-class assignments) in these columns.

President-Elect: Daphne G. Fautin will begin a three-year tenure as President of DIZ after the Albuquerque meetings.

Message from the Program Officer, Jon Norenburg

The Program Officer reported on DIZ co-sponsorship of the Aquatic Locomotion Symposium, and encourages DIZ members to recruit divisions to co-schedule symposia with DIZ. Similar numbers of papers were presented this year by the Division, and the number of posters was up slightly.

Message from the Secretary, Donna Wolcott

The Secretary reported that if election of officers were moved from fall to spring, newly elected officers could use the subsequent annual meeting to be mentored in their new duties. Moving all elections for all divisions to the spring would streamline the election process for the SICB Business Office.

For DIZ, moving to spring elections necessitates changes to the bylaws. The membership voted to move elections to the spring, and approved the following changes to the bylaws as detailed in the Fall 1995 *SICB Newsletter*. Changes are in brackets {}, deletions are ~~crossed out~~.

Bylaw Changes

Article V. Officers

The Officers of the Division shall be: Chair, Past-Chair, Chair-Elect, Secretary and Program Officer. The Chair-Elect shall be elected {triennially} ~~biennially~~ and shall then automatically become Chair for {three} ~~two~~ years following his/her year as Chair-Elect. He/She shall serve as Past-Chair during {the succeeding two years} ~~a fourth year~~. The

See next page

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Secretary and the Program Officer shall be elected triennially and shall hold office for three years. The expiration date of the terms of the {Chair,} Secretary and the Program Officer shall be arranged so that only one of them need be elected in any one year. The officers shall assume their duties at the beginning of the next calendar year following their election.

The above officers, together with the retiring Secretary and retiring Program Officer (if any) shall constitute an Executive Committee and be responsible for the affairs of the Division.

Article VII. Chair-Elect {and Past-Chair}

The Chair-Elect {or Past-Chair} shall assume the duties of the Chair whenever the latter cannot perform them. He/She shall sign all proposals to federal granting agencies on behalf of the Division of Invertebrate Zoology.

Article X. Nominating Committee

The Chair shall appoint a Nominating Committee consisting of three members who shall submit to the Secretary on {March} ~~June~~ 1 a list containing not less than two candidates for each office to be filled. The Nominating Committee must certify to the Secretary that each candidate has declared a willingness to run for office and serve, if elected. The candidates shall be announced in the next newsletter of the Division. Additional nominations for any office may be made in writing to the Secretary by any ten members of the Division not later than {June} ~~September~~ 1.

Article XI. Elections

Elections of officers shall be held by mail. The Secretary shall mail ballots to the membership of the Division in {May} ~~October~~. A brief biographical sketch for each candidate shall accompany the ballots. The Secretary or SICB Executive Director shall count, tabulate, record the votes received by {August} ~~December~~ 1, and notify the candidates for office of the results of the election. In the event that a vote results in a tie, the members of the Executive Committee shall vote by mail to resolve the tie.

Other Reports

Donna Wolcott, Secretary, announced that the Great Invertebrate Series will be confined to the fall newsletter, due to space constraints. Larry Spencer volunteered to provide the next installment for Fall 1996.

Rachel Merz, Public Affairs, stressed to members that we must be consistently providing items of importance to all available avenues for distribution, if significant progress is to be made in public awareness and legislative responsibility. Vehicles for dissemination include the *SICB Newsletter*, press releases and white papers about science news and public policy to other society newsletters and to the media.

For instance, the winner of the Libbie Hyman Award

could be publicized. Liaisons with lawmakers must be established and nurtured. For publicity, Rachel asks that we provide her with the names and contacts for news groups that would like to get announcements and that we provide her with information about anything potentially noteworthy or newsworthy, prior to the event if possible.

Daphne Fautin, Best Student Paper Chair: Twenty contenders are competing this year and are receiving feedback on their presentations from reviewers.

A motion was approved to award the first place winner \$100 from the DIZ treasury, a \$50 gift certificate from Oxford University Press, plus renewed membership for 1996 in SICB, also to be paid from the DIZ treasury. The second-place winner will receive free 1996 membership in SICB.

Michelle Duval, Graduate Student Representative, asks that graduate students contact her with comments and suggestions. She endorses a secondary meeting with an alternative venue as a good opportunity for graduate students to present their work and to network. Duval proposes a mini-symposium at annual meetings in which each division would sponsor one general review presentation on the "state of the field." This would serve as useful review for both graduate students and established researchers who teach general courses.

The graduate student/postdoctoral forum, "Job Alternatives," held Dec. 27, 1995, in Washington was successful. Next year's forum will be on writing: publishing, curriculum vitae preparation, and other related topics. Duval recommended a more central location for the job board at SICB meetings and that more non-academic jobs be listed.

A great asset would be a computer with Internet access to accompany the job board/career center at the next SICB meeting. Larry Spencer, DIZ home page master, announced a node from the SICB home page to the DIZ home page. He requests that we submit links to newsletters, job announcements, recent "invertebrate" news and links to good invertebrate educational sites on the World Wide Web.

Susan Cook, Educational Council Chair, announced revision of the pamphlet, *Careers in Animal Biology*, and welcomes input.

Questions were raised about the Division's co-sponsorship of the journal, *Invertebrate Biology*: What do we contribute? Money? A per-member contribution? Pay for exhibitor's booth at annual meetings? Encourage submission of manuscripts? Create a fund to cover page charges for DIZ members and student members? Have a check off for journal subscriptions and AMS membership on membership renewals? DIZ member on editorial board?

Proposals and their consequences will be publicized in the Fall newsletter and voted upon at the next annual meeting.

The meeting adjourned 6:09 p.m.

DIZ Candidates for Election

Candidates for Program Officer

Michael P. Lesser

Current Position: Research Assistant Professor of Zoology and Microbiology, University of New Hampshire, since 1993.

Education: B.A., Microbiology (minor in Zoology), University of New Hampshire, 1983; M.S., Microbiology, University of New Hampshire, 1985; Ph.D., Zoology, University of Maine, 1989.

Professional Experience: Bigelow Laboratory for Ocean Sciences, 1989-92; Bigelow Laboratory for Ocean Science, 1992-93.

Other Memberships: American Association for the Advancement of Science; International Society for Reef Studies; American Society of Limnology and Oceanography; American Society for Microbiology; The Oceanography Society; National Shellfisheries Association; Sigma Xi; Invited Participant, Workshop on the Effects of Ultraviolet Radiation in Tropical Coastal Ecosystems, sponsored by the University of Hawaii and Sea Grant, 1994; Invited Participant, Workshop on the Impact of UV-B Radiation on Freshwater Pelagic Ecosystems, sponsored by Lehigh University and the National Science Foundation, 1993; and Editorial Board, *Coral Reefs*, since 1994.

Research Interests: Physiological ecology and bioenergetics of invertebrates, metabolic-cold adaptation; algal and bacterial-invertebrate symbioses, oxidative stress and the photobiology of ultraviolet radiation; sea urchin aquaculture.

Goal Statement: The Society's new name reflects my own interdisciplinary approach to science. I would like to see the Society grow in numbers by attracting members from beyond the traditional viewpoint of its former name-sake but without losing focus on the principles of the old Society. Symposia will be a primary vehicle to facilitate growth in the new Society for Integrative and Comparative Biology. To promote growth, I think I can integrate well with the other divisions, and attract people to the Society from different fields. Exposing our members, especially graduate students, to individuals from the other fields will foster collaborations with new ideas and approaches while enhancing our educational mission as well.

Damhnait McHugh

Current Position: Assistant Professor of Biology, Department of Organismic and Evolutionary Biology, Harvard University, since 1996; Assistant Curator in Invertebrate Biology, Museum of Comparative Zoology, Harvard University, since 1996.

Education: B.S., University College, Galway, Ireland, 1983; M.S., University of Victoria, Canada, 1987; Ph.D., University of California, Santa Cruz, 1994.

Professional Experience: Smithsonian Institution Pre-doctoral Fellowship, 1993; National Science Foundation/Sloan Postdoctoral Fellowship in Molecular Evolution, 1994-96.

SICB Activities: SICB Program Focus Group Member, 1996.

Other Memberships: American Microscopy Society; International Society of Invertebrate Reproduction; Society for the Study of Evolution; Society of Systematic Biologists; Western Society of Naturalists; Congress Manager and Symposium Co-organizer, 7th International Congress on Invertebrate Reproduction, 1995.

Research Interests: Ecology and evolution of marine invertebrate life histories; molecular and morphological systematics of invertebrates; diversity and evolutionary relationships of invertebrate phyla, annelid classes and polychaete families.

Goal Statement: In addition to developing programs in which thematic sessions of oral presentations or groups of posters are scheduled and conflicts with similar sessions or symposia are avoided, I will also focus on soliciting member input for future programs and encouraging strong symposium and workshop proposals that reflect the current interests of DIZ members.

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Message from the Chair, David J. Prior

In this first year of the Division of Neurobiology (DNB), we have begun to inform the neuroscience community of the continuing benefits of affiliation with the Society for Integrative and Comparative Biology.

I am pleased to inform you that we now have 56 SICB members who have listed DNB as their primary affiliation and another 138 who have listed DNB as their secondary affiliation. We are beginning work on a set of bylaws for DNB that will be ready, in draft

form, for discussion and adoption at the next business meeting, which will be held at the Albuquerque SICB meeting at the end of the year. At the Washington, D.C., meeting we had two paper sessions in the DNB, and we look forward to more participation in "neuro" sessions, as well as in cross-divisional sessions and symposia, in the future. Please contact Rich Satterlie, our current Program Officer, if you have suggestions for future activities.

DNB Candidates for Election

Candidates for Chair

Charles H. Page

Education: B.S., Allegheny College; Ph.D., University of Illinois at Urbana.

Current Position: Professor of Biological Science, Rutgers University.

Professional Experience: Director, Physiology and Neurobiology Graduate Program, Rutgers University, 1981-90.

Other Memberships: Advisory Board, *Journal of Comparative Physiology*, since 1985; International Society for Neuroethology; Society for Experimental Biology; Society for Neuroscience.

Research Interests: Invertebrate neurobiology, sensory-motor integration in crustaceans, and crustacean nerve regeneration.

David J. Prior

Education: A.B., Olivet College; M.S., Central Michigan University; Ph.D., University of Virginia.

Current Position: Dean of Graduate Studies and Research and Professor of Biology, Northern Michigan University.

SICB Activities: Secretary, Division of Comparative Physiology and Biochemistry (DCPB), 1985-87; Member, Best Student Paper Committee, Division of Comparative Physiology and Biochemistry, 1989-90; Chair, Division of Neurobiology, 1995-96.

Other Memberships: Associate Editor, *Journal of Experimental Zoology*, 1986-89; Panel Member, Biological Instrumentation Program, National Science Foundation, 1989-92; Panel Member, Private Partnerships in Science Education Program, National Science Foundation, 1989-92; Board Member, International Union of Physiological Sciences, 1991-96; Board Member, International Union of Biological Sciences, 1991-96; Panel Member, Undergraduate Faculty Enhancement Program, National Science Foundation, 1992-93; Councillor, Council for Undergraduate Research, 1992-98; Member of the Editorial Board, *Physiological Zoology*, since 1987.

Research Interests: Neurobiology and neuropharmacology of pattern generators in molluscs; cardiac physiology and control of homeostasis in molluscs.

Candidates for Program Officer

James M. Ryan

Education: B.A., State University of New York at Oswego; M.S., University of Michigan; Ph.D., University of Massachusetts.

Current Position: Associate Professor of Biology, Hobart and William Smith Colleges.

Other Memberships: American Society of Mammalogists; Guild of Natural Science Illustrators; Society for Neuroscience; Past President, Geneva Chapter, Sigma Xi; Councillor, Council on Undergraduate Research.

Research Interests: Motor pool mapping of forelimb muscles in reptiles, mammals and bats; effects of free radicals on the neuronal cytoskeleton, axoplasmic transport and growth cones in tissue culture.

Richard A. Satterlie

Education: B.A., Sonoma State University; Ph.D., University of California, Santa Barbara.

Current Position: Professor of Zoology, Arizona State University.

SICB Activities: Program Officer, Division of Neurobiology, 1995-96.

Other Memberships: Society for Neuroscience; Panel Member, Instructional Scientific Equipment Program, National Science Foundation, 1981; Panel Member, National Science Foundation Graduate Research Traineeship Program, National Science Foundation, 1992.

Research Interests: Neurophysiology and neural basis of behavior in invertebrates, especially coelenterates and molluscs.

Candidates for Secretary

Michael J. Lannoo

Education: B.S., Iowa State University; M.S., Iowa State University; Ph.D., Dalhousie University.

Current Position: Assistant Professor, Muncie Center for Medical Education, Indiana University.

Other Memberships: AAAS; Sigma Xi; Society for Neuroscience; International Society for Neuroethology; American Society of Ichthyologists and Herpetologists; Herpetologists' League; Society for the Study of Amphibians and Reptiles; Director, U.S. Division, Declining Amphibian Populations Task Force, World Conservation Union/Species Survival Commission; Invasive Species Special Task Force, Species Survival Commission; Editor, *Journal of the Iowa Academy of Science*, 1990.

Research Interests: Vertebrate neuroanatomy and neuroethology, electroreception and lateral line system.

Kiisa C. Nishikawa

Education: B.S., State University of New York at Albany; Ph.D., University of North Carolina at Chapel Hill.

Current Position: Associate Professor of Biology, Northern Arizona University.

SICB Activities: Best Student Paper Committee, Division of Comparative Biochemistry and Physiology, 1989; Chair, Best Student Paper Committee, Division of Vertebrate Morphology, 1990; Best Student Paper Committee, Division of Vertebrate Morphology, 1995; Secretary, Division of Neurobiology, 1995-96.

Other Memberships: Neural Mechanisms of Behavior Review Panel, National Science Foundation, 1992-95.

Research Interests: Sensory modulation of feeding behavior in frogs.



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Message from the Chair, Carole S. Hickman

The Washington, D.C., meeting was bubbling and seething with hot systematics!

Congratulations to our now Past Chair, Lynne Parenti, on the outstanding symposium she arranged on "Phylogenetics, Biogeography and Marine Biodiversity." Special thanks to all the participants and speakers as well as the Divisions of Invertebrate Zoology, Ecology and Evolution, and Comparative Physiology and Biochemistry for co-sponsoring this supremely integrative event.

On behalf of the entire Division and our devotees in the other divisions, thanks to both Lynne and Past Secretary Stan Rice for their role in bringing systematics into a central position during the exciting intellectual reorganization of our entire Society.

DSZ begins 1996 with three new officers: myself and Secretary Dominique Didier and Program Officer Jackie Webb, who join me in looking forward to making the Division an even stronger comparative and integrative force and a unifying core for SICB. We have a new logo and we are contemplating a name change for the Division, so stay tuned!

We are discussing a number of ideas for symposia co-sponsored with other divisions. Topics include polymorphic characters, unconventional character sets (ecological, functional, behavioral, developmental), paleobiological data in systematics, measures of biological diversity, and revolutions in systematics.

We want to hear from YOU. By "YOU," we mean members of the Society at large as well as members of this Division. Contact Jackie Webb to discuss ideas. Mini-symposia and theme sessions are possible! Our Program Officer can work with you to turn a hot topic into a cutting-edge thematic mini-symposium for Albuquerque. Publication is not required, you don't have to fill an entire session,

and some financial support from the Division is a distinct possibility. Again, contact Jackie.

Ross Nehm begins a three-year term as Division Representative to the Graduate Student/Postdoctoral Affairs Committee. Ross is a systematic paleobiologist of the macro-evolutionary kind, and I anticipate bringing more evolutionary paleontology into the Division and Society over the next few years.

Systematics is the comparative and integrative force in modern biology. In the broad scheme of things, DSZ should act as the integrative core of the divisional structure of SICB. As a discipline, systematics must be more aggressive beyond its theoretical and procedural role in assessing phylogenetic relationships. It must be con-

We want to hear from YOU. By 'YOU,' we mean members of the Society at large as well as members of this Division.

cerned with taxonomic nomenclature and its regulation, and I am pleased to report that SICB has made a commitment to support the American Association of Zoological Nomenclature, which in turn supports the International Trust for Zoological Nomenclature.

The future of our discipline requires active concern for all aspects of systematic collections and our archival resource base. Our Division must play a major role in uniting SICB to speak with a strong integrative and comparative voice about the extent and significance of biological diversity. We must speak persuasively on issues of conservation biology and continue to encourage all SICB members to bring their expertise and influence to bear in the political sphere on behalf of the environment.

Systematics Resources

Our esteemed Past-Secretary Stan Rice initiated an *SICB Newsletter* column on "Computer Programs for Phylogenetic Studies." We have decided to expand this to systematics resources and to begin with an introduction to what is available on the Internet.

The University of California Museum of Paleontology (UCMP) now provides a convenient overview of resources. The World Wide Web page address is <http://ucmpl.berkeley.edu/welcome.html>. Go to "The Subway" for a map of Internet resources that includes "Phylogenetics." This is a well-organized directory of (1) Databases and Information, (2) Software Resources, (3) Societies and Meetings, and (4) Journals. (Note that you also can get to the UCMP Server Subway from our SICB home page, whose address is <http://SICB.berkeley.edu/SICB/SICB.html>.)

Rather than simply leaving you in the hope that you will explore on your own, I'll further tempt you by suggesting that under "Databases and Information," take a look at the Tree of Life. This project, organized by Wayne and David Maddison, is the beginning of a project to put the entire phylogeny of life on earth online. Check out the pages on fish and arthropods! Do you know what Species 2000 is?

Under Software Resources, the Norwegian EMBnet Node lists phylogeny programs under the following cate-

gories: general-purpose packages, parsimony programs, distance matrix methods, computation of distances, maximum likelihood, other methods of estimation, interactive tree manipulation, biogeographic analysis, bootstrapping, compatibility analysis, tree alignment, comparative method analysis, tree plotting/drawing, and sequence management/job submission.

The Tree of Life is the beginning of a project to put the entire phylogeny of life on earth online.

The Software Listing at Glasgow is especially well-organized and informative. Although it emphasizes tree building and molecular data, it has links to other information sources and listings as well as a link to Software Archives.

If you are a morphophile of the measuring kind, check out the Morphometrics Software at SUNY. In a quick browse, you will find a lot more than just "stuff for doing phylogenetics." Check out the Biodiversity and Biological collections web server at <http://muse.bio.cornell.edu/> for even more resources.

Enough said. Grab your integrative and comparative bioboards and go biosurfing.



Division of Vertebrate Morphology (DVM)

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Report from the Chair, Sharon B. Emerson

There continues to be concern over the membership of the Society for Integrative and Comparative Biology (SICB). One way to increase membership and to attract more people to the meetings is to organize broad, interdisciplinary symposia that target a number of different audiences simultaneously. People with symposium ideas are encouraged to contact their respective program officers as soon as possible.

One of the division's members, Jim Hanken, has become the new editor of *American Zoologist*, and a number of changes are in the works for that journal. These range from format to the ways in which manuscripts from symposia are reviewed. Stay tuned.

The DVM had a budget in 1995 of \$3,998. This relatively large amount of money was due to the fact that there was the opportunity for a one-time rollover of unspent funds from the previous year. It was moved and seconded at the Annual Meeting in Washington, D.C., that the money be allocated as follows: \$1,165 for the Aquatic Locomotion Symposium; \$1,160 for the Amphibian Metamorphosis Symposium; \$300 for the Avian Biology Symposium; \$300 for the 1995 Northeast Regional DVM conference; \$550 for the 1996 Northeast Regional DVM conference; \$200 in student prizes; and the rest of the money placed in the Dwight D. Davis

Fund.

The budget for the Division of Vertebrate Morphology in 1996 will be around \$2,310.

The search is still on for a new logo for the Division of Vertebrate Morphology. If you would like to submit a suggestion, please send a copy to the

The search is still on for a new logo for the Division of Vertebrate Morphology.

Secretary, Dominique Homberger. At present, Alice Gibb has submitted two drawings for consideration.

I just want to remind members one more time that due to action taken at the 1994 Annual Meeting, only single-authored papers will be accepted for competition for the Davis Prize and for the Best Student Poster in Vertebrate Morphology. Those instructions were not included in the request for abstracts for the Washington, D.C., meeting but will be in every subsequent flier.

I would like to thank those who have volunteered to serve on the Best Student Paper Committee (Sue Herring, chair; Dennis Bramble and Ann Pabst) and on the Best Student Poster Committee (Bruce Jayne, chair; Steve Reilly and Steve Gatesy).

International Society of Vertebrate Morphologists

The International Society of Vertebrate Morphologists (ISVM) serves to promote international co-operation in vertebrate morphology and related areas. All those interested in the subject are invited to become members.

The President of the ISVM is S.W. Herring (University of Washington; herring@u.washington.edu), and the Secretary is G.A. Zweers (Rijksuniversiteit Leiden; zweers@rulsfb.leidenuniv.nl).

If you wish to join the ISVM (the dues are a nominal \$5), send an e-mail to Prof. J.M.V. Rayner (icvm97@bristol.ac.uk) and your request will be forwarded.

Report from the Secretary, Dominique Homberger

Minutes of the Annual DVM Business Meeting

The meeting was called to order in Washington, D.C., on Dec. 27, 1995. The meeting was chaired by Sharon Emerson, and the minutes were recorded by Dominique Homberger. Only the items that are not mentioned in the Chair's Report are listed in this report.

The minutes of the last DVM business meeting in St. Louis on Jan. 5, 1995, were approved.

The following announcements were made:

John Hermanson was elected as DVM Program Officer, and Dominique Homberger was elected as DVM Secretary. The Nominating Committee (Ken Dial, chair; Sharon Swartz and Jim Stewart) were thanked for their work.

There was a call for symposia to be organized for DVM and other SICB divisions. Presently, the Division of Systematic Zoology and the Division of Developmental and Cell Biology are interested in co-sponsorship by DVM for some of their planned symposia. Symposia are not trivial for the survival and continued prosperity of DVM. There is a March deadline for sympo-

sium proposals each year. Proposals for outside funding of symposia should go through SICB. For further information on any aspects of symposia, contact the DVM Program Officer.

The DVM membership has leveled off in the last two years. DVM members are urged to look for potential members among their colleagues and graduate students and to motivate them to join DVM. The budget allocated by SICB to the individual divisions depends on the number of divisional members.

Rick Harrison, editor of the *Journal of Morphology*, thanked the ad hoc reviewers of the roughly 110 manuscripts that were submitted in 1995.

The outgoing DVM officers were recognized and thanked for their services: Mark Westneat, who served as Program Officer from 1994 to 1995, and Frank Fish, who served as Secretary from 1990 to 1995. In his farewell speech, Frank wistfully reminisced how he learned not to expect to receive flowers and/or Swiss or Belgian chocolates during Secretaries' Week.

Jim Hanken has accepted the offer to

succeed Milton Fingerman as editor of the *American Zoologist*. Jim outlined some of his plans for the journal.

Symposia will remain the focus of the journal, with individual symposium contributions undergoing standard review process. Pending approval by the Editorial Board, the issues will be made more diverse by including, for example, mini-reviews, authored book reviews, synopses of textbooks.

The publication time for manuscripts will be kept below 12 months, if possible. The minimal order for reprints will be lowered and so will the page charge for manuscripts exceeding the 10-page limit. The journal cover will be made more "snappy and stylish." A home page for the journal will soon be established. Electronic submission of papers will soon be possible.

Published abstracts of the SICB meetings will continue to be included in the journal, as they fulfill an important function and are widely read and cited. Jim Hanken also expressed an interest in assisting in the design and planning of symposia.

The meeting was adjourned at 5:45 p.m.

1995 Davis Prize and Best Student Poster Award Announced

There were 16 oral papers in the competition for the Davis Prize given for the best student oral presentation. The judging committee was chaired by Sue Herring and included Dennis Bramble and Ann Pabst. A number of the papers were superb, making the selection job very tough.

The judging committee for the best student poster presentation was chaired by Bruce Jayne and included Steve Gatesy and Steve Reilly. Several posters by students were outstanding.

The prizes for each consist of an award certificate for \$100 and books valued at \$100 from the University of Chicago Press.

Davis Prize for Best Student Oral Presentation

Christopher Marshall

University of Florida, Gainesville

"A Comparison of Sirenian Feeding Behavior and Morphology"

Best Student Poster Presentation Award

Gregory M. Erickson

University of California, Berkeley

"Assessing Tooth Replacement Rates in Alligators Using Incremental Line Counts"

Message from the Program Officer, John Hermanson

Divisional activity at the Washington meeting was excellent. I counted about 102 abstracts submitted through the Division, including 65 oral platform presentations and 37 poster presentations. For fun, I compared this to our last meeting in this "neighborhood," when we met in Baltimore in 1985.

At that meeting, we hosted about 57 platform presentations and only 12 posters. There were also two symposia in 1985: one on the neural crest, and the other on tests of functional hypotheses.

In 1995, the symposium on locomotion in aquatic vertebrates was timely and well-received. I noted consistently high levels of attendance at the symposium on both days that it was offered. The organizers, John Long and George Lauder, are to be commended for their efforts. Both gentlemen have been sent vacationing to Tahiti as a reward for their work.

With regard to the overall program, we did well, although there were the usual conflicts arising when subjects of overlapping interest came into collision on the schedule. For example, the Division of Comparative Physiology and Biochemistry held an interesting session on locomotion that conflicted with the DVM's session on lizard and mammal locomotion and breathing mechanics. And a high point of the meeting came when the entire Division was thrust through a time zone change to accommodate the printed program (a presentation at 1:20 p.m. immediately followed a presentation at 1:30 p.m.). Just the same, the program represented an exciting and packed agenda of presentations by seasoned and new authors.

Mark Westneat should be thanked for his efforts as past Program Officer and should be credited with not being responsible for some of those schedule bloopers in the printed program. When last seen, Mark was seen also

boarding a flight bound for Tahiti. It seems that the profits generated by the Aquatic Locomotion Symposium are being plunged back into further "research."

I would appreciate some input from Division members regarding the desirability of having more poster sessions and fewer platform sessions. This would alleviate some of the gridlock that currently assails the program. The oral platform presentations are, to me, the hallmark of the Society's meetings. Just the same, we need to address mechanisms by which we can free up more time for informal meeting and discussion, as well as to maintain the ability of our members to present stimulating and new ideas to the membership as a whole.

Perhaps we could ask our senior members — those holding faculty appointments or those older than I am — to hold to an every-other-year pattern of oral presentations, followed by poster presentations. I think we also need to ensure that our poster sessions are timely and not in conflict with other major events; for example, this year our posters were in competition for time with the presentation by the Bartholomew Award winner.

Any and all comments are welcome. You can reach me via e-mail at jwh6@cornell.edu. A few well-placed threats will suffice to make me drop the above queries.

As this newsletter goes to press, we are working with the organizers of two proposed symposia for the Albuquerque meeting. One is on the avian integument and is being organized by Paul Maderson. The other is being arranged by John Bertram and Richard Marsh and will focus on muscle biology and biomechanics. These will be presented to Sharon Emerson and the Society Program Officer later in the spring. These have not been finalized or approved yet, so any input would be well-received if you have comments.

Secretary's Report, Dominique Homberger

The secretaries of all SICB divisions met Dec. 28, 1995, in Washington, D.C., and were briefed by DVM's own SICB Secretary Sue Peters and by Leona Caffey and Tom Toussaint of the SICB Business Office.

DVM members Kiisa Nishikawa and Dominique A. Didier were also present in their function as secretaries of the Division of Neurobiolo-

gy and the Division of Systematic Zoology, respectively.

Election for officers will now be held in the spring, and the ballots will be included in the spring SICB Newsletter.

The deadlines for the newsletter are March 1 for the spring and Sept. 6 for the fall.

Any items to be included in the

newsletter, including black-and-white photographs, as well as any suggestions for changes in the format of the newsletter, should be sent to the DVM Secretary, not to the SICB Business Office.

The Society's WWW address is <http://SICB.berkeley.edu/SICB/SICB.html>.

Upcoming Meetings and Congresses of Interest to DVM Members

3rd International Workshop on the Functional Anatomy of Cranial and Cervical Systems

July 1-4, 1996, Leiden, The Netherlands

For more information, contact Herman Berkhoudt, 3rd CCS, Section Dynamic Morphology, EEW, Van der Klaauw Laboratory, Rijksuniversiteit Leiden, P.O. Box 9516, NL-2300 RA Leiden, The Netherlands. His fax number is 011/31-71-527-4900, and his e-mail address is berkhoudt@rulsfb.leidenuniv.nl.

Northeastern Regional Meeting of the Division of Vertebrate Morphology

Nov. 2-3, 1996, Morrill Science Center
University of Massachusetts, Amherst

Those who received notices of last year's meeting will automatically get this year's notice. Rooms have been reserved at the campus hotel.

For more information or a registration packet, contact Adam P. Summers, University of Massachusetts, Organismic and Evolutionary Biology, Morrill Hall, Amherst, MA 01003. His telephone number is 413/545-1863; his fax is 413/545-3243; and his e-mail address is summers@bio.umass.edu.

5th International Congress of Vertebrate Morphology

July 12-17, 1997, University of Bristol, United Kingdom

This Congress will bring together all those who have an interest in vertebrate morphology and related subjects. Topics will include all aspects of vertebrate morphology, including anatomy, evolution, development, biomechanics and locomotion, vertebrate paleontology, ecological morphology, morphology in behavior, neurobiology, morphometrics and other methods.

The Congress will be held at the University of Bristol and will be hosted by the School of Biological Sciences and the Departments of Geology and Anatomy. The conveners are Jeremy Rayner of the University of Bristol and R. McNeill Alexander of the University of Leeds.

The Congress will occupy nine half-day sessions, with a variety of invited symposia and workshops on a range of topics of current interest in vertebrate morphology, complemented by poster presentations and parallel sessions for oral presentations. There will be a plenary lecture by a distinguished scientist each day, plus a trade display and opportunities for showing films, dissections, and other demonstrations. Suggestions for symposia and workshops will be welcomed.

The Congress will open with a reception hosted by the University of Bristol on the afternoon of July 12, 1997; scientific sessions will take place July 13-17.

Accommodations, breakfast and evening meals for congress participants will be arranged in the University of

Bristol halls of residence, which are within a short distance of the meeting rooms in the main university buildings. Transport will be provided where appropriate.

Lunches will be available at the congress site. There will be a choice of rooms with en-suite facilities, or cheaper rooms without. For those who prefer a hotel, there is a wide choice in the city within a few minutes' walk of the university.

Bristol is one of the finest historic cities in England. It lies about 120 miles west of London, close to the estuary of the River Severn. For many years it was the second City of the Kingdom, and it became pre-eminent as a center for trade and shipping during the Middle Ages. There are excellent links by rail, road, and air to all parts of the United Kingdom, including London Heathrow Airport, and to major European cities.

Weather in southwest England in July is normally fine and mild, but with a maritime climate is often hard to predict. Temperatures are around 22 degrees Celsius, but occasionally as high as 27 degrees Celsius, and some rain is likely.

Registration arrangements will be described in the *Second Circular*, which will be available in late 1996 and will include registration information and form as well as a call for papers. A reduced registration fee will be available for students. We hope to make available a limited number of bursaries for those who might experience genuine financial hardship.

For more information about the Congress and the International Society of Vertebrate Morphologists, see our World Wide Web site — <http://www.bio.bris.ac.uk/icvm.html> — or contact J.M.V. Rayner of the School of Biological Sciences, University of Bristol, Bristol BS8 1UG, United Kingdom. The fax number is 011/44-117-025-7374, and the e-mail address is icvm97@bristol.ac.uk.

3rd World Congress of Herpetology

Aug. 2-10, 1997, Prague, Czech Republic

This Congress will feature seven days of scientific programming and a full-day professional field excursion. Several social events are also included in the registration fee: a welcome reception, a beer party in a 13th century brewery, a light lunch as well as coffee and tea breaks each day, a concert in the Rudolfinum, and a farewell reception. There also will be activities for accompanying persons and post-congress tours.

For more information or to receive the first circular, contact Zbynek Rocek, Local Committee Chair, at the Department of Paleontology, Geological Institute, Academy of Sciences, Rozvojova 135, CZ-165 00 Praha 6 — Suchbát,

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Czech Republic. The fax number is 011/42-2-2431-1578, and the e-mail address is rocek@gli.cas.cz.

22nd International Ornithological Congress

Aug. 16-22, 1998, Durban, South Africa

This Congress will include a full scientific program covering all aspects of avian biology. There will be oral and poster presentations, workshops, 10 plenary lectures, and about 50 symposia, such as "Growth and Differentiation of Avian Embryos," "Avian Vision," "Functional Neuroanatomical Pathways and Systems in the Avian Brain," and "Avian Skeleto-muscular Systems," to mention a few that might be of special interest to vertebrate morpholo-

gists.

There will be also a full social and cultural program for accompanying members, as well as a large number of ornithological tours to numerous areas of southern Africa before and after the actual congress. All interested scientists are invited to take part.

For more information about the scientific program, contact Walter J. Bock, Secretary of the Congress, Department of Biological Sciences, Box 37, Schermerhorn Hall, Columbia University, New York, NY 10027.

For more information on the Congress or to be placed on its mailing list, including the call for papers, contact Aldo Berruti, Secretary-General of the Congress, Durban Natural Science Museum, P.O. Box 4085, Durban 4000, South Africa. The fax number is 011/27-31-262-6114.

Journals of Interest to DVM Members

Zoomorphology, a Springer-Verlag journal with a high quality of production, seeks manuscripts on vertebrate morphology. It is a reasonably well-circulated journal, is indexed in Current Contents, and tries to provide fast and efficient review and publication.

Marvalee Wake is the North American representative of vertebrate morphology on the editorial board and would be more than willing to answer any questions about *Zoomorphology*. She can be reached at the University of California, Department of Integrative Biology, 3060 VLSB, Berkeley, CA 94720-3140. The fax number is 510/643-6264, and the e-mail address is mhwake@garnet.berkeley.edu.

Zoologischer Anzeiger: A Journal of Comparative Zoology is one of the oldest German zoological journals. In 1995, it published its 234th volume in its renewed

form, after having merged with *Zoologische Jahrbücher, Abteilung für Systematik, Oekologie und Geographie der Tiere*.

Zoologischer Anzeiger: A Journal of Comparative Zoology publishes articles in English in comparative organismic zoology and specializes in the fields of morphology, systematics (including taxonomy), biogeography and evolutionary ecology. It is indexed in Current Contents and is devoted to the rapid publication of original research.

Walter Bock is the North American Editor and is more than willing to answer questions about *Zoologischer Anzeiger*. He can be reached at Columbia University, Department of Biological Sciences, Box 37, Schermerhorn Hall, New York, NY 10027. The fax number is 212/865-8246, and the e-mail address is wb4@columbia.edu.

DVM Candidates for Election

The DVM Nominating Committee — Kathleen K. Smith, chair; David Wake and Tony Russell — submits the following names of candidates for the position of DVM Chair.

Candidates for Chair

David Cundall

Current Position: Professor of Biological Sciences, Lehigh University, since 1995; Research Associate, Museum of Natural Science, Louisiana State University, Baton Rouge, since 1993.

Education: B.S., Zoology, McGill University, 1967; M.S., Zoology, University of Arkansas, 1970; Ph.D., Zoology, University of Arkansas, 1974.

Professional Experience: Assistant Professor of Biology, Virginia Commonwealth University, 1974-75; Assistant Associate Professor of Biology, Lehigh University, 1975-92; Professor of Psychology, Lehigh University, 1992-95; Associate Editor, *Herpetologica*, 1986-93; Divisional Co-Editor, *Copeia*, since 1991;

SICB Activities: SICB Education Committee member, 1977-78.

Other Memberships: Chair, Joint American Society of Ichthyologists and Herpetologists, Herpetologists' League, and Society for the Study of Amphibians and Reptiles Committee for Support of Student Travel, 1987-89; member, Stoye Award Committee (ASIH), 1988; member, Herpetologists' League Graduate Research Award Committee, 1995.

Research Interests: Functional morphology, behavior, and evolution of tetrapod feeding systems, particularly those of snakes and salamanders.

Goal Statement: My vision for DVM is that it should continue to be a supportive and exciting community that encourages all approaches to understanding vertebrate morphology. As someone who has pursued research out of the mainstream in the relative isolation of a small department, I am very sensitive to the pressures on our discipline and the difficulties it faces in the future. I would like to see DVM devoted to helping young practitioners by forcefully advertising the continued relevance of morphology to all studies of vertebrates. One means that DVM could use to achieve this is co-sponsorship — with other divisions of the society — of symposia that more fully integrate morphology with development, behavior, ecology, physiology and systematics.

Peter C. Wainwright

Current Position: Associate Professor of Biological Science, Florida State University, Tallahassee, as of June 1996.

Education: B.S., Duke University, 1981; Ph.D., University of Chicago, 1988.

Professional Experience: Assistant Professor of Biological Science, Florida State University, Tallahassee, 1991-1996; Assistant Professor of Biological Science, Florida International University, 1990-1991.

SICB Activities: Program Officer, Division of Systematic Biology, 1990-1994; member of the Program Review Committee, 1995; Co-organizer of symposium on Ecological Morphology, 1992.

Other Memberships: Chair, Stoye Award Student Paper Committee, American Society of Ichthyologists and Herpetologists, 1990-1991; Editorial Board for Systematic Biology, since 1995.

Awards: Teaching Incentive Award, Florida State University, 1995; George Bartholomew Award, SICB Division of Comparative Physiology and Biochemistry, 1995.

Research Interests: I am broadly interested in the evolution of organismal design. My research has focused primarily on the functional morphology and ecology of feeding in fishes as a case study in the biology of a complex functional system. I advocate an integrative approach in which functional morphology and physiology are ultimately viewed in the light of ecology and evolution.

Goal Statement: Our division is among the strongest and most active in the Society. I feel that it is important for us to continue to offer outstanding symposia and interactive paper sessions that promote the exchanges that we have all come to value so much in our annual meetings. I hope that we can continue to cultivate shared interests with other groups in the Society and work to increase our offerings of paper sessions that cross divisional boundaries. As SICB continues to metamorphose, I think we have an opportunity and obligation to be at the forefront of identifying and strengthening the Society's common themes.



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