



NEWSLETTER

Animal Behavior Society

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A quarterly publication

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Clemson, South Carolina 29631

Section (Division) Animal Behavior and Sociobiology
American Society of Zoologists
Ecological Society of America

This issue of the ABS NEWSLETTER is being mailed on 1 September 1982 so that information from the 1982 Annual Meeting (15-20 August, Univ. of Minnesota, Duluth) can be included.

ANIMAL BEHAVIOR SOCIETY ANNUAL ELECTION OF OFFICERS -- 1982

The following persons have been nominated for office for terms beginning in June 1983:

- Second President-Elect: Jeanne Altmann, Dept. Biology, Univ. Chicago
Arthur A. Myrberg, Jr., Rosentiel Sch. Marine Sci., U. Miami, FL
- Program Officer: Ruth E. Buskirk, Inst. Geophysics, Univ. Texas, Austin
Lee C. Drickamer, Dept. of Biology, Williams College
- Member at Large: Phillip N. Lehner, Dept. Zoology & Entomology, Colorado State
Judy Stamps, Dept. of Zoology, Univ. California, Davis
- Parliamentarian: Edward Burtt, Jr., Dept. of Zoology, Ohio Wesleyan Univ.
David B. Miller, Dept. of Psychology, Univ. Connecticut, Storrs.

Additional nominations may be made by letter to the Executive Committee (c/o John G. Vandenberg, ABS President, Dept. Zoology, N.C. State Univ., Raleigh, NC 27650) signed by five or more members in good standing. The ballot and resumes of the candidates will appear in the November ABS NEWSLETTER.

NEW FELLOWS: The Executive Committee announces the election of eight members of the Animal Behavior Society as new Fellows of the Society. "Fellows are members who have engaged in research in animal behavior for at least ten years . . . and have made distinguished contributions to the field of published research." Fellows are restricted to not more than 5% of the active membership.

The new Fellows are: Donald A. Dewsbury, Howard E. Evans, Gilbert Gottlieb, Miles H. L. Keenleyside, Masakazu Konishi, Arthur A. Myrberg, Jr., Gordon H. Orians, and C. Richard Terman.

AWARDS

1982 ALLEE AWARD: The 1982 Warder Clyde Allee Award for the best student paper at the ABS Annual Meeting was won by Kimberly Sullivan, Institute of Animal Behavior, Rutgers University, for her paper "The advantages of social foraging in Downy Woodpeckers (*Picoides pubescens*)." Honorable Mention was won by Eliot A. Brenowitz, Section of Neurobiology & Behavior, Cornell University, for his paper "The active space of red-winged blackbird song and its relation to territory size." The Allee Award provides a Certificate of Achievement, a cash prize of \$100, and a request by ABS for an invitation to the International Ethological Conference.

MEETINGS -- CALLS FOR PAPERS

THE NATIONAL ASSOCIATION OF BIOLOGY TEACHERS CONVENTION: Detroit (Westin Hotel, Renaissance Center), 14-17 Oct. 1982. The theme is "The Biological and Social Sciences: Education for Citizenship." The keynote address by Paul Erlich will be "Ecology, Extinction and the Social Sciences." There will be more than 200 concurrent sessions, workshops, and sessions on Animal Care, Environmental Education, Evolution, Human Genetics, and Women and Minorities. There will also be sessions for Animal Behavior educators.

INTERNATIONAL SOCIETY FOR DEVELOPMENTAL PSYCHOBIOLOGY: The 1982 Annual Meeting will be held 28-31 October in Minneapolis, Minnesota. For meeting information, contact: William P. Smotherman, ISDP Conference Organizer, Department of Psychology, Moreland Hall 204, Oregon State University, Corvallis, OR 97331.

MEETINGS -- CALLS FOR PAPERS - continued

SOUTH CENTRAL REGIONAL CONFERENCE IN COMPARATIVE ENDOCRINOLOGY: The Division of Comparative Endocrinology of the ASZ is sponsoring the meeting to be held on the uptown campus of Tulane Univ., New Orleans on Oct. 1-2, 1982. Contact the Conference Director, Milton Fingerman, Dept. of Biology, Tulane Univ., New Orleans, LA 70118.

AMERICAN ASSOCIATION OF ZOO KEEPERS: 1982 National Conference, October 3-8, Toronto Canada, at the Chelsea Inn, hosted by the Metro Toronto Zoo AAZK Chapter. Papers on animal management and research as well as workshops on zoo related topics are featured. Registration is \$60 (+ \$10 late fee) for non AAZK members. \$20 is refundable if you are presenting a paper. Contact: Fran Turner, Conference Coordinator, Metro Toronto Zoo, P.O. Box 280 West Hill, Ontario Canada M1E 4R5.

TAMAULIPAN BIOTIC PROVINCE: An International Symposium will be held 28-30 October, 1982 in Corpus Christi, Texas (La Quinta Royale Motor Inn). The Symposium will include all ecological aspects of the biome: Vegetation, invertebrates, vertebrates, ecological structure and function, biological resources (use and effects), and management. It will include aspects of applied science and conservation. For information on abstracts: Gene W. Blacklock, Curator, Welder Wildlife Foundation, P.O. Drawer 1400, Sinton, TX 78387 or David Riskind, Head, Resource Management Section, Texas Parks and Wildlife Dept., 4200 Smith School Rd., Austin, TX 78744. For registration information: Jimmie R. Picquet, Director, John E. Conner Museum, Texas A&I Univ., P.O. Box 2172, Kingville, TX 78363.

1982 NORTHEAST REGIONAL ABS MEETING: 29-31 October, at Northeastern Univ., Boston, MA. Keynote address by Patrick Bateson: "Functional Sense in Developmental Complexity." Symposia: "Plasticity and Specificity in Early Development," and "The Ecology of Communication." Invited lecture by Stephen Glickman. Registration fee at meeting: \$30, students \$18. All scheduled events are accessible to the disabled. Send information requests to: Martin Block, N.E. ABS Meeting, Dept. of Psychology, Northeastern University, Boston, MA 02115 (phone: 617-437-3793).

SQEBC: The VII Annual meeting of the Societe Quebecoise pour l'Etude Biologique du Comportement will be held 11-14 Nov. 1982 (note date change) near Sherbrooke, Quebec, Canada. A Symposium on "OPTIMIZING BEHAVIOR UNDER ECOLOGICAL CONSTRAINTS: SEX AND/OR FOOD" is planned. Guest speakers are: Jon Erichsen, Stony Brook and Don Kramer, McGill Univ. Registration fees: \$20, students \$15. Submit abstracts no later than 1 Oct. 1982. Send fees, abstracts, or information requests to: Andre Cyr, Dept. Biology, Univ. of Sherbrooke, Sherbrooke, Quebec, Canada, J1K 2R1.

COLONIAL WATERBIRD GROUP: Sixth Annual meeting 4-7 Nov. 1982 in Washington, DC. A symposium on the feeding biology of waterbirds is planned. Papers given at the meeting are eligible, after refereeing, for publication in Colonial Waterbirds. To obtain registration information, please contact: Michael Erwin, U.S. Fish and Wildlife Service, Patuxent Wildlife Research Center, Laurel, MD 20708.

ENTOMOLOGY MEETING: A combined meeting of the Entomological Society of America, the Entomological Society of Canada, and the Entomological Society of Ontario will be held 29 November through 3 December 1982 at the Royal York Hotel, Toronto, Ontario, Canada. The theme for this combined meeting is "Nearctic Entomology: Continental Cooperation." The meeting will include workshops, symposia, and invited papers.

For information, please contact: Jeffrey A. Gorman, Entomological Society of America, 4603 Calvert Road, College Park, MD 20740.

FUTURE ASZ-ABS MEETINGS: ABS has been invited to meet with ASZ in 1984 and in 1985:
1984 Dec. 27-30 at the Marriot Hotel and the Holiday Inn in Denver
(Dennis Barrett and James Platt, Univ. of Denver chair the local committee)
1985 Dec. 27-30 at the Hyatt Regency and the Hilton in Baltimore
(Donald Forester and Philip Creighton, Towson State Univ. chair the local comm.).

ANIMAL BEHAVIOUR: Please check that the libraries and institutions you use subscribe.
VOLUNTARY CONTRIBUTIONS: The Animal Behavior Society welcomes contributions from its members. Members may make the ABS a beneficiary of an estate or name the ABS in a will.

MEETINGS -- CALLS FOR PAPERS - continued

WESTERN SOCIETY OF NATURALISTS: 1982 Annual Meeting 27-30 Dec. 1982, California State Univ. at Los Angeles. For details, contact: David H. Montgomery, Dept. of Biological Sciences, California Polytechnic State Univ., San Luis Obispo, CA 93407.

CRUSTACEAN SOCIETY: Scheduled activities for the 1982 meeting with ASZ in Louisville: Symposia--Crayfish Distribution Patterns, J. F. Payne and Factors Influencing Crustacean Growth, A. M. Wenner; Workshop--Crayfish Culture, A. J. Provenzano, Jr. Contributed paper sessions are also planned. Contact: Patsy A. McLaughlin, Program Chair, The Crustacean Society, Dept. of Biological Sciences, Florida International Univ., Miami, FL 33199.

XVIIIth INTERNATIONAL ETHOLOGICAL CONFERENCE: Brisbane, Australia, 29 Aug.-6 Sept., 1983.

For information: Glen McBride, Animal Behaviour Unit, University of Queensland, St. Lucia, Queensland, Australia 4067. This will be an open meeting. Deadline for receipt of abstracts and reduced rate registration: 15 Nov. 1982.

Peter F. Sale of Sydney Univ., a member of the Scientific Planning Committee, will attend the Dec. 1982 ABS meeting planned in conjunction with the ASZ meeting in Louisville and will be available to answer questions concerning the Congress or other aspects of their trips to Australia which those planning to attend may have.

IEC-BRISBANE TRAVEL: The Brisbane Committee has designated Qantas Airlines as the official carrier for travel to Australia -- you will probably be contacted by them. Because of the variation in travel plans, requirements for travel in Australia and the lack of charters or special group rates to Australia, there are no plans for group travel. It is recommended that each person planning to attend the conference make their own travel plans -- check out all the airlines, various possible points of departure and different fares available. You should expect to pay \$900 - \$1300 for airfare. Please do plan to join us and make your plans early!

The USECC is currently applying for NSF travel support for younger scientists. We should also note that Prof. McBride and the Brisbane Committee have indicated that they will be very generous with space for poster papers for those who wish to present in that manner or are not placed on the oral presentation part of the program.

If there are any questions or problems, please contact Lee C. Drickamer, Department of Biology, Williams College, Williamstown, MA 01267; phone 413-597-2223.

FELLOWSHIPS AND POSITIONS AVAILABLE

PETER NIKOLIC FELLOWSHIP: The T. C. Schneirla Research Fund is accepting applications from students in Comparative Psychology or Animal Behavior for a Peter Nikolic Fellowship. Awards in the amount of \$50 to \$500 will be made on the basis of the submission of a proposal which should be no more than 5 pages (double-spaced). The proposal should indicate the purpose and significance of the study, the procedures to be used, the budget and the need for financial support. A letter describing the current academic status of the applicant and the names of two teachers or scientists familiar with the student's work should accompany the proposal. Two copies of the letter and the proposal should be sent to the T. C. Schneirla Research Fund, c/o David Rosoff, 251 West 86th Street, New York NY 10024 by October 1, 1982. (Lateness due to mail delay will be considered.) Awards will be announced December 1, 1982.

CHARLES TOBACH FELLOWSHIPS: The T. C. Schneirla Research Fund is accepting applications from students in Comparative Psychology or Animal Behavior for Charles Tobach Fellowships in the amounts of \$50-\$500 each. The applicant should submit a research proposal which should be no more than 5 pages in length (double-spaced). The proposal should indicate the purpose and significance of the study, the procedures to be used, the budget and the need for financial support. A letter describing the current academic status of the applicant and the names of two teachers or scientists who are familiar with the student's work should accompany the proposal. Two copies of the letter and the proposal should be sent to the T. C. Schneirla Research Fund, c/o David Rosoff, 251 West 86th Street, New York NY 10024 by October 1, 1982. (Lateness due to mail delay will be considered.) Awards will be announced December 1, 1982.

FELLOWSHIPS AND POSITIONS AVAILABLE - continued

PRE-DOCTORAL FELLOWSHIPS: The Primate Foundation of Arizona in association with Arizona State University has available pre-doctoral fellowships for the study of chimpanzee behavior. The fellowship term is one year beginning Jan. or Aug. of each year; award amount for 12 months is \$6000. Behavior observation experience is desirable and MS degree or equivalent is preferred. Applications must be received no later than 90 days prior to starting date. Apply now for term beginning Jan. 1983. Send letter of inquiry to: Jo Fritz, Executive Secretary, Primate Foundation of Arizona, P.O. Box 86, Tempe, AZ 85281.

NORTH AMERICAN LOON FUND GRANTS: The North American Loon Fund (NALF) announces the availability of two grant programs for support of new or current research, management, or education projects that may yield useful information for Common Loon conservation in North America.

The first of these programs, the Robert J. Lurtsema Research Award, consists of a \$1000 stipend available annually for a suitable research project focused on a member of the Family Gaviidae. Preference will be given to students and independent researchers with limited availability of other funding.

The second program offers modest grants in support of research, management, or educational projects directly related to the conservation of Common Loons as a breeding species. Proposals in the range of \$500 to \$3000 are most likely to be considered for funding.

Further guidelines are available for prospective applicants are available upon request from the NALF Grants Committee. Deadline for submission of proposals is 31 January 1983. Funding awards will be announced by 15 March. Please submit requests for guidelines to: NALF Grants Committee, North American Loon Fund, Meredith, NH 03253.

PUBLICATIONS AVAILABLE

COLONIAL WATERBIRDS: The new journal of the Colonial Waterbird Group is now available. The first issue is numbered volume 4 to maintain continuity with "Proceedings of the Colonial Waterbird Group" which are the published papers of reports presented at meetings held 1977-1979. Future volumes of Colonial Waterbirds will include papers not necessarily presented at the CWG annual meetings. Papers submitted for publication will be subject to page charges and peer review. To order back issues of the Proceedings, send \$12 US or equivalent to: Colonial Waterbird Group Treasurer, Iola M. Price, 564 Fairview Ave., Ottawa, Ontario K1M 0X4 Canada. Volume 4, Colonial Waterbirds is available at \$20 US or equivalent from the Treasurer. Membership in CWG is available to individuals (\$20), families (\$25) and students (\$15) by applying to the Treasurer. Colonial Waterbirds and the CWG Newsletter are included with membership. For further information, contact CWG Secretary, Francine G. Buckley, 372 South Street, Carlisle, MA 01741.

NEW JOURNAL: Beginning in 1983, the Journal of Comparative and Physiological Psychology will be published as two journals, one in the area of comparative psychology and the other (under the continuing editorship of Richard Thompson) in the area of behavioral neuroscience. It has been decided that the new journal will be called Comparative Psychology and Behavior. It will appear under the editorship of Jerry Hirsch. Manuscripts intended for publication in Comparative Psychology and Behavior should be sent to Jerry Hirsch, Psychology Department, University of Illinois, 603 East Daniel, Champaign, Illinois 61820 6267. Appreciation is expressed to those who wrote letters of support.

BIOLOGICAL CONTROL OF BLACK FLIES: A comprehensive review of the literature on the development of Bacillus thuringiensis as a black fly larvicide is available. "Biological control of black flies (Diptera: Simuliidae) with Bacillus thuringiensis var. israelensis (serotype 14): A review with recommendations for laboratory and field protocol" edited by Daniel Molloy, Miscellaneous Publications of the Entomological Society of America (Volume 12, number 4) is available from Kathleen DeBold, Sales Manager, ESA, 4603 Calvert Road, College Park, MD 20740 (tel. 301-864-1334).

"GRADUATE PROGRAMS IN ANIMAL BEHAVIOR: 1981-82": This publication has been prepared by the ABS Education Committee and is available from: Wayne Aspey, Chair, Education Committee ABS, Dept. of Zoology, Ohio State University, Columbus, OH 43210. Please send a 9 x 12" self-addressed envelope with \$1.00 postage (\$2.00 for non U.S.).

ABS Education Committee Survey: DO ANIMAL BEHAVIOR GRADS GET JOBS: IF SO, WHERE?

The ABS Education Committee would like to provide some information about the careers of individuals who received an advanced degree (e.g., M.S., Ph.D.) in animal behavior within the last 10 years (1973-1982). If you are such an individual, or if you served as the major academic advisor for such an individual, we need your help!

Please complete the following information for yourself or each student of your's and return the questionnaire by NOVEMBER 30, 1982. Fold this page on the dotted lines so the mailing address on the reverse side shows, tape closed, add 20¢ postage, and mail. A summary of results will appear in a forthcoming issue of the ABS NEWSLETTER. Thank you for your kind helpfulness.

Wayne P. Aspey, Chairperson, ABS Education Committee

YOU: Advanced degree(s) and date(s) received: _____

Institution(s) conferring degree(s): _____

Research field(s) (e.g., Behavioral Ecology): _____

Teaching field(s): _____

Current position--
title and employment: _____

YOU OR YOUR STUDENTS (those receiving degrees in 1973 and after):

	Student #1	Student #2	Student #3
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Degree(s) & Date(s): _____

Institution(s): _____

Research field(s): _____

Teaching field(s): _____

First position after
degree & date:
(include going on
to Ph.D., post-
doctorals, etc.) _____

Present position
& date started: _____

PLEASE ATTACH ADDITIONAL PAGES IF NECESSARY

SEE OVER

ABS Education Committee Survey: ANIMAL BEHAVIOR IN LABORATORY AND FIELD

A third edition of Price & Stokes ANIMAL BEHAVIOR IN LABORATORY AND FIELD is being contemplated. You can help in planning the new edition by completing the questionnaire below on the second edition. Please return by NOVEMBER 30, 1982, by folding on the dotted lines so the mailing address on the reverse side shows, tape closed, add 20¢ postage, and mail. A summary of the results will be published in a future issue of the ABS NEWSLETTER. Thank you for your continued helpfulness.

Wayne P. Aspey, Chairperson, ABS Education Committee

1) If you teach a laboratory course in animal behavior, which is true:

- _____ I have used, or am using, the Price and Stokes lab manual as assigned material (students purchase the book).
- _____ I have used the Price and Stokes manual to plan laboratory exercises, but students have not been required to purchase the book.
- _____ I have not used the book.

2) Please answer the following if you have used the Price and Stokes lab manual:

- a) The exercises that worked best for me are (list by number): _____
- b) The exercises that most effectively demonstrated a principle, illustrated a type of behavior, or taught an analytic method are: _____
- c) The exercises that students liked best are: _____
- d) The exercises that I most strongly recommend for the inclusion in the third edition are: _____
- e) The exercises that I do not recommend for the third edition are: _____
- f) What types of exercises would you like to see added for the next edition?
- g) Would you be willing to participate in an exchange of lab exercises in animal behavior? _____ The Education Committee might serve as a clearing house, and could compile a list of "who has what" and publish this information in the ABS NEWSLETTER. Interested individuals could then contact the appropriate person for a copy of the exercise.

Additional comments or recommendations on this lab manual are welcomed; please do not hesitate to send them along with this questionnaire or include them on the reverse side of this page.

Place additional comments here:

Please fold here so address shows

Please fold here so address shows

Apply
20¢
Postage
Here

Dr. John M. Ringo
ABS EDUCATION COMMITTEE SURVEY: LABS
Department of Zoology
Murray Hall
University of Maine
Orono, Maine 04469

Tape closed (do not staple)

ANIMAL CARE GUIDELINES: The Ethics Committee of ASAB (U.K.) and the Animal Care Committee of ABS have published "Guidelines for the Use of Animals in Research" in ANIMAL BEHAVIOUR (1981, Vol. 29: 1-2). The publication is free to ABS members from the ABS Secretary, Sidney A. Gauthreaux, Jr., Department of Zoology, Clemson Univ., Clemson, SC 29631.

ABS ANIMAL CARE GUIDELINES

I. FEDERAL, STATE, AND LOCAL REGULATIONS. Members, their students, and research associates have an obligation to become thoroughly familiar with, and comply with the provisions of the Animal Welfare Act (1970), the Endangered Species Act (1973), 62 Statute 686 (1948), and the Migratory Bird Treaty Act (1918), all subsequent amendments, rules, and regulations pursuant to these Acts, and other applicable federal, state, and local regulations to which the researcher may be subject. In the case of animals trapped in foreign countries, researchers have an obligation to become familiar with, and comply with the relevant regulations of those countries.

II. STANDARDS OF RELATED ORGANIZATIONS. Members and their affiliates should attempt to become familiar with standards of organizations, other than the ABS, which relate to the care, treatment, and use of animals in behavioral research.

III. ABS GUIDELINES FOR ANIMAL CARE.

A. Choice of Animals.

1. Species. The species chosen for study should be well-suited to answer the questions posed. When the research involves the use of procedures which are likely to cause unavoidable pain or discomfort to the animal, and when alternate species can be used, the researcher should employ the species which in his/her opinion, is least likely to suffer.

2. Number of individuals. In the case of 1) laboratory experiments involving non-optimal conditions (e.g. pain or discomfort), or 2) field studies involving manipulations potentially detrimental to the population, the researcher should utilize the smallest number of animals necessary to accomplish the research goals.

3. Status of natural populations. If the taxon or population is endangered or threatened, individuals should not be collected except in cooperation with a serious conservation endeavor and in compliance with the Endangered Species Act (1973) and other pertinent legislation. The researcher is responsible for ascertaining the status of the taxon or population in question and should uphold not only the letter but also the spirit of those laws dealing with endangered species both in the U.S.A. and in the foreign countries where the animals originate.

B. Observation of Natural Populations. Observation of free-living animals in their natural habitat may involve disruption, particularly if feeding, trapping, or marking is involved. While field studies may further scientific knowledge and advance awareness of human responsibility towards animal life, the investigator should always weigh any potential gain in knowledge against the adverse consequences of disruption for the animals used as subjects and also for other animals in the ecosystem.

C. Procurement of Animals. Researchers should obtain animals only from reliable and legal sources. As much as possible, the researcher should ensure that those responsible for handling of the animals en route to the research facility provide adequate food, water, ventilation, and space, and do not impose undue stress. If animals are field-trapped this should be done legally and in a manner which is as painless and humane as possible.

D. Housing and Animal Care. Unless contraindicated by research protocol, animals should be maintained and cared for in such a manner as to meet their species-typical and individual needs. Minimal standards are specified in Guide for the Care and Use of Laboratory Animals, DHEW Publications No. (NIH) 74-23.

E. Pain or Discomfort. Since traumatic effects of experimental procedures are likely to vary from species to species, the researcher should attempt to ascertain how much his/her research species is likely to suffer as a result of the procedures employed. In general, researchers are urged to consider the use of alternative procedures before employing techniques which are likely to cause physical or psychological discomfort to the animal. In accordance with the existing animal welfare laws, pain or discomfort, even when unavoidable, should be minimized to the greatest extent possible under the requirements of the experimental design. Attention should be given to proper pre- and post-operative care in order to minimize preparatory stress and residual effects. Unless specifically contraindicated by the experimental design, procedures which are likely to cause pain or discomfort should be performed only on animals which have been adequately anesthetized.

ABS ANIMAL CARE GUIDELINES - continued

F. Final Disposition of Animals. Whenever practical or feasible, researchers should attempt to distribute their animals to colleagues for further study. However, if animals are distributed for use in additional experiments, care should be taken that the same animals are not used repeatedly in experiments which involve invasive surgical procedures or other treatments which are likely to be stressful or painful. Except as prohibited or prescribed by federal, state, or local laws, researchers may release field-trapped animals if this is practical and feasible, and if it is critical to conservation efforts. However, the researcher should consider that releases into the wild may be injurious or detrimental to existing populations in the area, and releases should be made only after the researcher has determined that the negative impact is likely to be minimal. As a general guideline, field-trapped animals should be released only within the same area where they were trapped (unless conservation efforts dictate otherwise), and only when their ability to survive in nature has not been impaired, and when they do not constitute a health or ecological hazard to existing populations. If animals must be destroyed subsequent to the study, this should be done by euthanization in as humane and painless a way as possible, and death of the animals should be confirmed before bodies are discarded.

PUBLICATIONS AVAILABLE - continued

The National Association of Biology Teachers' Committee for Animal Behavior publishes a newsletter for high school, community college and university animal behavior teachers. 'Laine Gurley, editor of the newsletter, is calling for short articles describing field or lab studies which can be performed by high school students. Art work depicting animal behavior is also requested. Deadlines are: 10 Dec. for the Jan. issue and 10 April for the May issue. Send materials to: 'Laine Gurley, Department of Education, Stone Hall, Cornell University, Ithaca, NY 14853.

ENTOMOLOGY: A CATALOG OF INSTRUCTIONAL MATERIAL: The revised version of this catalog will include materials applicable to teaching and learning about insects at all levels of education. Publication (by the Entomological Society of America) is scheduled for October 1982. For further information, please contact: Kathleen DeBold, Sales Manager, ESA, 4603 Calvert Road, College Park, MD 20740 (tel. 301-864-1334).

FROM INDIVIDUAL TO SPECIES RECOGNITION: THEORIES AND MECHANISMS SYMPOSIUM: Proceedings of the Symposium, sponsored by ABS and DAB-ASZ, held at the ASZ meeting in December 1980. Contents: Beecher, Introduction. Beecher, Signature systems and kin recognition. Holmes and Sherman, The ontogeny of kin recognition in two species of ground squirrels. Cheney and Seyfarth, Recognition of individuals within and between groups of free-ranging vervet monkeys. Rohwer, The evolution of reliable and unreliable badges of fighting ability. Rothstein, Successes and failures in avian egg and nestling recognition with comments on the utility of optimality and reasoning. Baker, Vocal dialect recognition in birds. Gerhardt, Sound pattern recognition in some North American treefrogs (Anura:Hylidae): Implications for mate choice. Hoy, Pollack, and Moiseff, Species recognition in the field cricket, Telogyllus oceanicus: Behavioral and neural mechanisms.

American Zoologist (1982) Volume 22, Number 3. Over 125 pages. \$12.00 in U.S. and Canada, \$14.00 Elsewhere. Order from: The American Society of Zoologists, Box 2739 California Lutheran College, Thousand Oaks, CA 91360 (phone 805-492-3585). Price includes postage and handling. Discount of 10% on 10 or more copies.

ABS ANNIVERSARY: A celebration is planned for the 20th Anniversary of the founding of ABS. A session at the 1984 meeting will review the history of the society, honor the founding members, and include a slide show of past events and key people. The format is wide open, the ad hoc Anniversary Committee welcomes suggestions from any member of the Society. Contact Dietland Muller-Schwarze, Chair, Anniversary Committee, Dept. of Environmental and Forest Biology, SUNY, Syracuse, NY 13210.

ABS DUES, CHANGE OF ADDRESS, MEMBERSHIP: Write to H. Jane Brockmann, Treasurer ABS, Dept. of Zoology, Bartram Hall, Univ. of Florida, Gainesville, FL 32611.

ANIMAL BEHAVIOUR - MANUSCRIPTS, REVIEWS, EDITORIAL POLICY: Write to Patrick Colgan, Editor, Animal Behaviour, Dept. of Biology, Queens University, Kingston, Ontario K7L 3N6 Canada.

1982 MEETING OF THE ANIMAL BEHAVIOR SOCIETY WITH THE
AMERICAN SOCIETY OF ZOOLOGISTS, CRUSTACEAN SOCIETY,
INTERNATIONAL ASSOCIATION OF ASTACOLOGY, SOCIETY OF SYSTEMATIC ZOOLOGY,
AND AMERICAN MICROSCOPICAL SOCIETY

DECEMBER 27 - 30 GALT HOUSE, LOUISVILLE, KENTUCKY

SYMPOSIUM SPONSORED BY THE ANIMAL BEHAVIOR SOCIETY

AND THE DIVISION OF ANIMAL BEHAVIOR, ASZ

ALTERNATIVE REPRODUCTIVE TACTICS (organized by Steven N. Austad for the Animal Behavior Society and the Division of Animal Behavior, ASZ).

Tentative program includes:

- AUSTAD, S. N. Alternative reproductive tactics: The maintenance of behavioral variability.
- WALTZ, E. C. and L. L. WOLF Environmental unpredictability, time scales, and alternative mating behaviors.
- HOWARD, R. D. Alternative mating behaviors of young male bullfrogs.
- WILEY, R. H. Ontogenetic trajectories in polygynous societies.
- BORGIA, G. The evolution of expanded lek mating systems.
- CADE, W. H. Genetic variation and mating success in male crickets.
- CHRISTENSON, T. E. Alternative reproductive tactics in spiders.
- THORNHILL, R. Condition-dependent alternative female choice tactics in Bittacid scorpionflies.
- FAIRCHILD, L. Male reproductive tactics in an explosively breeding toad population.
- LE BOEUF, B. J. The expression, consequences, and limits of male libido in elephant seals.
- DOMINEY, W. An obligate male mating pattern in bluegill sunfish: Consequences of obligate vs. facultative variation.
- RUBENSTEIN, D. I. Mating in waterstriders: Different strokes for different folks.

OTHER SYMPOSIA

- (1) Cellular mechanisms of ion regulation in arthropods, (2) Molecular aspects of early development, (3) Gastrulation, (4) Biomechanics, (5) Crayfish distribution patterns, (6) Factors influencing Crustacean growth, (7) Phylogenetic relationships of the lizards, (8) Evolution of neural systems in the vertebrates: Functional-anatomical approaches, (9) The evolution of endocrine systems in lower vertebrates, (10) Evolution of the vertebrate lymphocyte, (11) Biochemical adaptations of parasites, (12) Ecology of bog and marsh algae, (13) The place of T. H. Morgan in american biology.

Abstracts will be published in the American Zoologist 22(4).

For the following information about the Louisville meeting, send this coupon to:
Mary Wiley, American Society of Zoologists, Box 2739,
California Lutheran College, Thousand Oaks, CA, 91360.

ABS members must request these materials. They will not be automatically sent to them.

Name and Address:

Brochure detailing Louisville
Meeting plans.

Housing and Registration Forms
(Available in October)

FUTURE ABS ANNUAL MEETINGS:

1983 June 19-24, Bucknell Univ., Lewisburg, PA, host: Douglas Candland, Dept. Psychology

1984 August 13-17, E. Wash. Univ., Cheney, WA, host: Steven B. Christopher, Dept. Psychol.

1985 June, Raleigh-Durham, NC, final arrangements will be announced when available.

The Executive Committee is now accepting invitations to host the 1986 and subsequent annual meetings of ABS. Potential hosts should contact: John G. Vandenberg, President, Animal Behavior Society, Department of Zoology, N.C. State University, Raleigh, NC 27650.

SYMPOSIA FOR ASZ AND ABS MEETINGS: Individuals interested in organizing symposia for the 1983 ASZ meetings in Philadelphia, PA (December) or the 1983 ABS meeting at Bucknell (June), should contact Terry Christenson, ABS Program Officer, Department of Psychology, Tulane University, New Orleans, LA 70118

DEADLINES, NEWSLETTERS: ASZ Division Animal Behavior: 1 April 1983 for May Newsletter.
Animal Behavior Society: 15 Oct. for Nov. NEWSLETTER, 15 Jan. 1983 for Feb. NEWSLETTER.

Send materials to: Sidney A. Gauthreaux, Jr., Secretary, Animal Behavior Society,
Department of Zoology, Clemson University, Clemson, SC 29631.

(NEWSLETTER Editor and Assistant to the Secretary: Anna E. Ross, Dept. Zoology, Clemson)

SIDNEY A. GAUTHREAU, JR., Secretary
Animal Behavior Society
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