

NEWSLETTER

Animal Behavior Society

Vol. 30, No. 1
February, 1985

Terry Christenson, ABS Secretary
Dept Psychology, Tulane University
New Orleans, LA 70118

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

1984 ABS ELECTION RESULTS

The following officers were elected in the recent ABS balloting. They will begin their terms 29 June 1985.

Second President-Elect: Sidney Gauthreaux

Treasurer: H. Jane Brockmann

Editor: Charles Snowdon

Member-At-Large: Gail Michener

The amendment to Article 7 concerning the establishment of a standing Research committee was PASSED. The amendment to Article 13 allowing a research award was PASSED. The award process should be set in motion within the year. The amendment to Article 8 dissolving ties with the ESA was PASSED. ABS is no longer formally affiliated with ESA. A total of 373 members voted (17.2%); this compares to 13.6% in 1983 and 14.6% in 1982.

RALEIGH ABS MEETINGS- 23-28 JUNE 1985

The ABS and the International Society of Human Ethology will meet in Raleigh NC. REGISTRATION MATERIALS AND INFORMATION ARE CONTAINED IN THIS NEWSLETTER.

A Fellow's Lecture will be given by Edward Price (Dept of Animal Science UC-Davis) entitled "Domestic Animal Behavior: A New Challenge". There will be two plenum speakers: Dr. Richard Wurtman, Laboratory of Neuroendocrine Regulation of MIT, will lecture on dietary correlates of CNS neurochemistry and behavior; and John Garcia, Dept of Psychology, UCLA, will address how "Darwin was a learning theorist".

Two symposia include: Risk Sensitive Foraging organized by Thomas Caraco (SUNY-Albany) with Christopher Barkan, Leslie Real, J.E.R. Staddon, and David Stephens; and Auditory Communication: Comparative and Developmental Aspects organized by Gilbert Gottlieb (UNC-Greenboro) with H. Carl Gerhardt, David Miller, Meredith West & Andrew King, and Janet Werker.

Four invited sessions include:

- 1) Behavior and Misbehavior of Companion Animals organized by Peter Borchelt (Animal Behavior Consultants) and Victoria Voith (Univ of Penn) with D. Craig, B. Hart, L. Hart, G. Hamilton, K. Houpt, E. McCrave, A. Marder, L. Myers, C. Penn, D. Tortora, J. Ward, J. Wright, and M. Young;
- 2) The Ethology of Psychiatric Populations organized by Jay Feierman (Univ of NM) with A. Bouhuys, M. Chance, G.M. Dempsey, H. Dienske, H. Ellgring, R. Gardner, Jr., H. Harpending, J.S. Heisel, C. Littlefield, M. McGuire, R. Nesse, R. Pitman, J. Price, R. Simons, L. Sloman, M. Surbey, and W. Ulwelling;
- 3) The Importance of Experimenter-Animal Interactions in the Development and Measurement of Learned Behavior: A Cross-Species Analysis organized by Hank Davis (Univ of Guelph) with I. Pepperberg, D. Rumbaugh, E.S. Savage-Rumbaugh, R. Schusterman, and J.P. Scott; and

(4) Comparative Studies of Play organized by Maxeen Biben (NIH) with R. Fagan, S. Friedman, and K. Thompson.

Transmittal forms were published in the Nov 1984 Newsletter; deadline for submission of ALL Abstracts is 1 March. THIS IS A LAST CALL FOR PAPERS. Deadline for submission of Allee manuscripts is 1 April; they should be sent to Gordon Burghardt, Dept Psych, Univ of TN, Knoxville TN 37916. Questions about the program should be directed to the Program Officer, Lee Drickamer, Dept Biol, Williams College, Williamstown, MA. 01267.

ABS MIDWEST REGIONAL MEETING

Will be held 22-24 March 1985 at Miami University in Oxford OH. Requests for information should be directed to the local host, Douglas Taylor, Dept of Zoology, Miami Univ, Oxford, OH 45056. Only the members living in that area have received a mailer.

ABS NORTHEAST REGIONAL MEETING

A regional meeting will be hosted by the Departments of Biological Sciences and Psychology of SUNY at Albany the weekend of 1-3 Nov 1985. A mailing will be sent to ABS members living in the region. Others wishing to receive information should contact Ken Able at Dept Biology SUNY-Albany, Albany NY 12222.

ABS GRADUATE PROGRAMS IN ANIMAL BEHAVIOR PUBLICATION

PLEASE--THE DEADLINE HAS BEEN EXTENDED. THIS IMPORTANT PROJECT NEEDS YOUR EFFORT! Most of us have referred to the Graduate Programs publication in the past, certainly to use as a reference when advising undergraduates interested in the study of animal behavior. The completeness of this project is entirely dependent upon our providing the needed information. So far the return of forms published in the Nov Newsletter has not been impressive. If you have not filled out that information form, take a few minutes and do so. If you know of any animal behaviorists who might not have received this form, copy it and send it to them. Send the form to Robert Matthews, Dept of Entomology, Univ of Georgia, Athens, GA 30602. If you need the form, contact Robert.

TOULOUSE CONFERENCE

NSF has awarded travel support money for these meetings. DEADLINE FOR APPLICATION HAS BEEN MOVED TO 7 MARCH. Those who have had support from NSF for previous IEC meetings and who are still eligible are encouraged to apply. Send nine copies of your vitae and abstract, and one or two recommendations to Lee Drickamer, Dept Biology, Williams College, Williamstown MA 01267.

Delegates from the northeast planning to go to Toulouse and interested in a charter from Toronto to Paris, leaving 22 August and returning on dates which can be selected by the individual, should contact Betty De Vries, Dailey Travel, 212 Princess St, Kingston, Ontario, K7L 1B2.

As is the custom, the Division of Animal Behavior of the American Society of Zoologists held its annual business meeting during the annual meeting of ASZ. Nine people attended. Discussed were whether election to office in the ABS should entail holding the corresponding office in the Division of Animal Behavior of ASZ (as it now does), and a proposal that the Division of Animal Behavior conduct a competition for the best student paper at the annual ASZ meeting, as do other divisions. It was agreed that both issues should be placed on the agenda of the ABS Executive Committee when it meets in Raleigh.

The Executive Committee of ASZ was informed that membership in ASZ has declined in recent years, and so was urged to make efforts to increase enrollment. Membership in ASZ is an especially good bargain for students; for \$25 (half the regular dues) they get the full package, which includes opportunity to present papers at annual meetings, and receipt of the journal The American Zoologist. Contact Mary Wiley at ASZ, Box 2793 California Lutheran College, Thousand Oaks, CA 91360.

The Denver meeting marked the 25th anniversary of the founding of The American Zoologist. In celebration, each division had one of its top people give a plenary lecture surveying the last quarter century of work in its field. For the Division of Animal Behavior Jack Hailman spoke on "Ethology, Zoosemiotic, and Sociobiology."

Also of special interest to animal behavior people were two symposia: "Patterns of dispersal among mammals", arranged by B.D. Chepko-Sade and Z.T. Halpin; and "Territoriality", arranged by F.L. Carpenter. These should appear in The American Zoologist in due course, as will Jack Hailman's plenary lecture. ---Submitted by Colin Beer, ABS President and Division of Animal Behavior Chair

STATUS REPORT ON ANIMAL RESEARCH LEGISLATION

Before Congress adjourned last fall, no action was taken on the so-called "Improved Standards for Laboratory Animals Act" (H.R. 5725); thus, the bill expired. Similar legislation can be re-introduced in the new Congress.

As a prerequisite to adopting any legislation limiting the use of animals in research, Congress proposed that the National Institutes of Health (NIH) commence a study by the National Academy of Sciences (NAS) on the use of animals in research. The proposed NAS study was contained in the reauthorization bill for NIH that was passed by Congress last October just before adjourning; however, the NIH reauthorization bill was subsequently vetoed by the President. Support for an overview study is high and will undoubtedly be considered again by Congress as it proceeds with new legislative efforts. ---Submitted by G. H. Waring, Chair of Public Affairs Comm.

ANIMAL CARE GUIDELINES

Copies of the guidelines are available from Zuleyma Halpin, Dept Biol- Univ Missouri, St. Louis MO 63121.

SOCIETY PROCEDURES FOR RESOLUTIONS

According to guidelines followed by the Animal Behavior Society (see Feb. '84 Newsletter), written resolutions to be introduced at the Annual Business Meeting at Raleigh in June should be submitted by 24 April to the Chair of the Public Affairs Committee, Geo. H. Waring, Dept of Zoology, Southern Illinois University, Carbondale, IL 62901.

Transfer of our archival material to the Smithsonian Institution is now under way. Smithsonian has a complete set of our Newsletters, all the papers of Al Guhl (the second Chairman of the ESA Section on Animal Behavior and Sociobiology), and all of Schein's Secretarial and Presidential papers. They are now ready to receive Society related papers of all individuals who served in one capacity or another. This means ex-officers, Executive Committee members, and Committee chairs, among others. If there is any question about the papers or their appropriateness, send them on and let the Archivists at the Smithsonian make the decision; the worst that could happen is that your papers would be returned to you. Box up materials and send them to:

Mr. William Deiss
Smithsonian Archives
Smithsonian Institution
Washington, DC 20560

The box should be marked "Animal Behavior Society" on the outside and should include an inventory of the contents. Indicate in your cover letter your position and specify the period of your service. Drop a note to Martin Schein and he can supply you with Smithsonian mailing labels, then you do not have to pay postage.

The Smithsonian has been provided with a printout of the names of all individuals who have served the Society and the capacity in which they served. The printout goes back to the original ESA Section on Animal Behavior and Sociobiology, which was established in 1956, so if you served on a Section or ASZ Division committee predating the establishment of the ABS in 1964, send in your papers.

If there are any questions, contact Bill Deiss or Marty Schein (Dept of Biology, West Virginia University, PO Box 6057, Morgantown, WV 26506.

ABS LOGO

So far no suggestions have been sent in concerning the new ABS LOGO. If you have any ideas, drawings, or notions please contact Joan Lockard, Dept of Neurological Surgery, Univ of Washington, Seattle, WA 98195. An embossed paperweight will be given to the designer of the chosen LOGO.

ANIMAL BEHAVIOR SOCIETY DIRECTION OF CORRESPONDENCE

ANIMAL BEHAVIOUR—Manuscripts and editorial matters:
Patrick Colgan, Editor
Dept of Biology, Queens Univ
Kingston, Ontario K7L 3N6 Canada

ANIMAL BEHAVIOUR--Missing, duplicate, defective, or back issues:

H. Jane Brockmann, Treasurer
Dept Zoology, Univ of Florida
Gainesville, FL 32611

ABS NEWSLETTER & correspondence to the Society--deadline for May Newsletter 15 April:

Terry Christenson, Secretary
Dept of Psych, Tulane Univ
New Orleans, LA 70118

ASZ DIVISIONAL NEWSLETTER—deadline for Spring issue 1 April:
Terry Christenson

MEMBERSHIP—Dues, address changes, applications, and membership lists: H. Jane Brockmann

MEETINGSPOSITIONS AVAILABLE

ABS MIDWEST REGIONAL- 22-24 MARCH- Miami Univ in Ohio

SCIENTISTS CENTER FOR ANIMAL WELFARE. Final workshop on animal care and use committees to be held 23-24 MAY 1985 at the Aspen Institute, Aspen, CO. Aimed at a wide audience, the program will include information on current and proposed national policies. Contact Dr. F. Barbara Orlans, Scientists Center for Animal Welfare, PO Box 9581, Washington DC 20016.

SYMPOSIUM ON COMPETITION AND COEXISTENCE- Univ of Natal 23-26 JULY, 1985. Contact Dr. Graham Hickman, Dept Zool, Pietermaritzburg Natal 3200, Rep S Africa.

THE HERPETOLOGISTS' LEAGUE & THE SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES. A joint meeting at the University of South Florida from 4-8 AUGUST 1985. For additional information and program announcement contact Henry R. Muchinsky, Biology Dept, University of South Florida, Tampa, FL 33620.

ABS NORTHEAST REGIONAL- 1-3 NOV- SUNY at Albany

EVOLUTION OF SOCIAL BEHAVIOR: INTEGRATIVE LEVELS- THE THIRD T.C. SCHNIERLA CONFERENCE 7-9 NOV 1985. To be held at the American Museum of Natural History, New York City. Invited speakers include: T. Alloway, N. Eldredge, D. Gordon, S.J. Gould, M. Grene, S. Hrdy, R. Levins, R. Lewontin, E. Nagel, W. Livant, E.F. Skinner, M. Wartofsky, and Mae Wan Hoe.

Papers on the topics of the evolution of social behavior, the concept of integrative levels, or the relation between the two, are invited for review. Ten papers will be accepted for presentation at the Conference and publication in the Conference Proceedings (Volume III). Papers should be 3000 words or less and may include only two of the following: graph, table, illustration. ONE OF THESE PAPERS WILL BE AWARDED THE T.C. SCHNIERLA RESEARCH AWARD OF \$250. Manuscripts should be addressed to Dr. Ethel Tobach, American Museum of Natural History, CPW & 79 St, NY NY 10024. DEADLINE 1 JULY, 1985.--- Lester R. Aronson, Gary Greenberg, Ethel Tobach, and Howard Topoff, conference committee.

ASZ MEETINGS IN BALTIMORE--- 27-30 DEC 1985. The ABS will meet with the ASZ at their annual convention in Baltimore. The Division of Animal Behavior of ASZ and the ABS are cosponsoring with other Divisions the following:

Symposium- Behavior as a Factor in the Population Dynamics of Rodents: New Concepts and Approaches. Organized by Lee C. Drickamer.

Workshop- Computer assisted analysis of ¹⁴C-2-deoxy-D-glucose autoradiography. Organized by D. L. McEachron, N. Adler, and O. Tretiak.

The abstract form for contributed papers will be available by mid-April from Mary Wiley, ASZ, Box 2793 California Lutheran College, Thousand Oaks, CA 91360 (805) 492-3585. Abstract deadline is 12 August 1985.

1986 ABS Meeting- 8-13 JUNE at the Univ of Arizona.

1986 ASZ/ABS Meetings- 27-30 DEC in Nashville.

1987 ASZ/ABS Meetings- 27-30 DEC in New Orleans.

1988 ABS ANNUAL MEETINGS. We are accepting bids for 1988. If you are interested, contact the President, Colin Beer, at the Institute of Animal Behavior, Rutgers Univ, Newark NJ 07102 (201)648-5854.

ANIMAL BEHAVIORIST- Instructor or assistant professor of biology, Colby College. A temporary 1-year appointment, starting 1 Sept 1985. Applicants should be broadly educated in the biological sciences and experienced in animal behavior. Preference may be given to those whose materials are received by 1 April 1985. Send curriculum vitae and three letters of recommendation to: Dr. Miriam F. Bennett, Dept of Biology, Colby College, Waterville, ME 04901.

PRIMATOLOGIST- The Universite de Montreal invites applications from primatologists having a Ph.D. degree or equivalent who wish to be sponsored for an "Attache de recherche du C.R.S.N.G." fellowship effective Sept 1985. The position will involve conducting behavioral research on a group of captive Japanese macaques in conjunction with other researchers and assisting in the supervision of undergraduate and graduate students. If not bilingual, the candidate is expected to invest in the learning of French. These fellowships are awarded for five years, may be renewed and carry a salary at the assistant professor level. Send C.V., three letters of reference and reprints by March 1985 to Bernard Gnapais, Dept of Anthropology, Universite de Montreal, C.P. 6128, Succ A, Montreal H3C 3J7 Canada

FIELD RESEARCH ASSISTANT- Several field research assistant positions are available for the summer (May-July) 1985. The study is being conducted at the Carmel Valley, CA and in western New York state. The study will be measuring the impact of variation in male parental care on female reproductive effort. Room and board can be provided. Field experience is preferred. Interested persons should send a letter stating: interests; salary requirements; prior research, field, & banding experience; and names, addresses, & phone numbers of two references to: Mark Finke, Computer Science Dept, SUNY Geneseo, Geneseo, NY 14454.

ANIMAL BEHAVIOR INTERNSHIPS- Available summer 1985. Training offered in the rearing and rehabilitation of orphaned, native passerines. Research opportunities on the role of early experience in the ontogeny of survival-related behaviors, including imprinting, song-learning, development of foraging skills, etc. Room and board provided. Send letter of interest and names of references to: Paul Beaver, Ph.D., Director of Research, Quabaug Bird Sanctuary, Bird Rehabilitation Research Institute, 315 Palmer Rd., Ware, MA 01082. Deadline is 15 April 1985.

VOLUNTEER FIELD RESEARCH ASSISTANT- needed during spring and summer (April-July 1985) to assist on research on the breeding biology and behavioral ecology of the Bahama Parrot on Abaco Island, Bahamas. Responsibilities include finding and monitoring nests and recording detailed observations. Some experience with vegetation surveys and bird population censusing techniques desirable. Work will be intense and demanding but presents an opportunity to become familiar with the Caribbean fauna. Travel expenses will be reimbursed and room and board will be provided, although field work will include remote camping. If possible, time will be made available for the pursuit of one's own research interests. Send resume describing academic and field experience, interests and biographical data to Rosemarie Gnam, Dept of Biology, Queens College CUNY, Flushing, NY 11367.

1985 ABS OFFICERS AND COMMITTEE CHAIR PERSONS
(*New officers' terms begin 29 June 1985)

PRESIDENT: Colin Beer, Institute of Animal Behavior, Rutgers Univ, Newark NJ 07102
1st PRESIDENT-ELECT: Jeanne Altmann, Dept Biology, Univ of Chicago, Chicago, IL 60637
2nd PRESIDENT-ELECT: Gordon Burghardt, Dept of Psych, Univ of Tennessee, Knoxville TN 37916
*2nd PRESIDENT-ELECT: Sidney Gauthreaux, Dept Zoology, Clemson Univ, Clemson SC 29631
PAST-PRESIDENT: Devra Kleiman, Dept Zool Research, National Zoological Park, Washington, DC 20008
SECRETARY: (1984-87) Terry Christenson, Dept Psych, Tulane University, New Orleans, LA 70118
TREASURER: (1982-85) H. Jane Brockmann, Dept Zoology, Univ of Florida, Gainesville, FL 32611
*TREASURER: (1985-88) H. Jane Brockmann
PROGRAM OFFICER: (1983-86) Lee C. Drickamer, Dept Biology, Williams College, Williamstown, MA 01267
PARLIAMENTARIAN: (1982-86) Edward H. Burt, Jr., Dept Zool, Ohio Wesleyan Univ, Delaware OH 43015
MEMBER-AT-LARGE: (1982-85) Sarah Lenington, Institute of Animal Behavior, Newark NJ 07102
MEMBER-AT-LARGE: (1983-86) Phillip Lehner, Dept Zool/Entom, Colo State Univ, Fort Collins CO 80523
MEMBER-AT-LARGE: 1984-87) Joan S. Lockard, Dept Neurol Surgery, Univ Washington, Seattle WA 98195
*MEMBER-AT-LARGE: (1985-88) Gail Michener, Dept Biol Sci, Univ of Lethbridge, Lethbridge Alberta T1K 3M1 Canada
EDITOR: (1982-85) Patrick Colgan, Dept Biol, Queens University, Kingston Ontario K5L 3N6 Canada
*EDITOR: (1985-88) Charles T. Snowdon, Dept Psychology, Univ of Wisconsin, Madison WI 53706
CHAIR, ANIMAL CARE COMM: Zuleyma Halpin, Dept Biol, Univ of Missouri, St. Louis, MO 63121
CHAIR, EDUCATION COMM: Robert Matthews, Dept Entom, Univ of Georgia, Athens GA 30602
CHAIR, FILM COMM: Patricia DeCoursey, Dept Biol, Univ of South Carolina, Columbia SC 29208
CHAIR, MEMBERSHIP COMM: Miles Keenleyside, Dept Zool, Univ of Western Ontario, London Ontario N6A 5B6
CHAIR, ORG & BYLAWS: Edward H. Burt, Jr., Dept Zool, Ohio Wesleyan Univ, Delaware OH 43015
CHAIR, POLICY & PLANNING COMM: David Miller, Dept Psych, Univ of Connecticut, Storrs CT 06268
CHAIR, PUBLIC AFFAIRS COMM: Edwin M. Banks, Dept Ecol Ethol & Evol, Univ of Illinois, Urbana IL 61801
ABS HISTORIAN: Martin W. Schein, Dept Biol, Univ of West Virginia, Morgantown WV 26506
AIBS REPRESENTATIVE: Edward M. Barrows, Dept Biol, Georgetown Univ, Washington DC 20057
SECTION G-AAAS REPRESENTATIVE: Jerry Hirsch, Dept Psych, Univ of Illinois, Champaign IL 61820

MEMBERSHIP OF ABS COMMITTEES
(Year term expires in parentheses)

ANIMAL CARE COMMITTEE:

CHAIR, Zuleyma Halpin (1985)
Robert Anderson (1986)
Peter Borchelt (1985)
James A. Cohen (1985)
Janis Driscoll (1985)
H.B. Graves (1986)
Jennifer Mather (1986)

EDUCATION COMMITTEE:

CHAIR, Robert Matthews (1985)
Christine R. Boake (1986)
Gordon Burghardt (ex officio)
Theodore E. Burk (1986)
Daniel Q. Estep (1985)
Devra Kleiman (ex officio)

FILM COMMITTEE:

CHAIR, Patricia DeCoursey (1985)
David Chiszar (1986)
William Franklin (1986)
Jill Mellen (1986)
Gloria Sullivan Caldwell (1985)

MEMBERSHIP COMMITTEE:

CHAIR, Miles H. A. Keenleyside (1986)
Millicent Ficken (1987)
Jan Randall (1986)
Keith Waddington (1987)
Robert Warner (1985)

ORGANIZATION AND BYLAWS COMMITTEE:

CHAIR, Edward H. Burt, Jr. (ex officio)
Irwin Bernstein (1986)
Steve A. Platt (1985)

POLICY AND PLANNING COMMITTEE:

CHAIR, David Miller (1988)
Gordon Burghardt (ex officio)
Martha Balph (1986)
Edward Burt, Jr. (ex officio)
David Dunham (1985)
Patricia Adair Gowaty (1985)
Devra Kleiman (ex officio)

PUBLIC AFFAIRS COMMITTEE:

CHAIR, GEORGE H. WARING (1986)
Edward Barrows (ex officio)
David Chiszar (1985)
Abby Schwartz (1986)
Pamela Sutherland (1985)

TO SERVE ON AN ABS COMMITTEE

If you are interested in serving on a committee, write a letter stating your interests to the President, Colin Beer, at the Institute of Animal Behavior, Rutgers Univ, Newark NJ 07102. Your letter will be kept on file so that you will be considered when there is a position to be filled on the Committee you wish to join. As you can see from the dates of expiration noted above, several positions will be open this year. Your interest is encouraged.

THANKS

The Secretary wishes to thank Jay Hansche (Dept Psych, Tulane Univ) for his help in producing our Newsletter.



THE SECOND JACK WARD MEMORIAL FILM COMPETITION

The Jack Ward Memorial Award for the most outstanding animal behavior film produced non-commercially will be held at the ABS Raleigh meetings 23-28 June 1985. Non-commercial films are defined as follows: Made by an individual largely associated with animal behavior from a teaching, research, and/or applied perspective. The assistance of professional photographers or a university media/photography department is allowed, but the film must be made primarily for educational/research purposes and not with the major goal of grossing an income for the individual or the professional photographers. Submissions may be film, video or possibly other media. The award is \$250 plus a certificate.

We have received few submissions for this year's competition. So if you are interested, we encourage you to submit. Inquiries are welcome. Note that films entered in this competition will not be judged against professional films; the Animal Behavior Film Award competition for a commercially produced film is a separate event.

ENTRY FORM ON BACK SIDE OF THIS PAGE

DEADLINE FOR SUBMISSION IS 7 MARCH 1985

GENERAL ANNOUNCEMENTS

FEB 1984 ANIMAL BEHAVIOUR ISSUES NEEDED- This issue (vol. 32, #1) is out-of-print and about 65 members of ABS never received a copy (lost in mail, etc). If you have an extra copy, could you please send it to H. Jane Brockmann, Dept of Zoology, Univ of Florida, Gainesville FL 32611 so that it may be sent out to someone who didn't receive it? Thank you.

FIELD STUDY OF PANAMANIAN TAMARINS and COURSE IN PRIMATE SOCIAL BEHAVIOR- This summer Dr. D.R. Rasmussen will be conducting a survey of size and composition of groups of Panamanian tamarins, their patterns of range use, and the agonistic and affiliative responses to introduced strangers near the Atlantic entrance to the Panama Canal. During the study, two month long 8 quarter-credit college courses in primate social behavior will be taught from 17 June to 17 July and 23 July to 22 August. These courses will provide students with a strong introductory background to animal behavior and primatology as well as an exceptional opportunity to learn field methods and participate in a field project. For further information contact: School for Field Studies, 196 Broadway, Cambridge, MA 02139.

THE CANADIAN WILD HORSE SOCIETY- announces publication of Road Transport of the Horse: An Annotated Bibliography, 7th ed., Sharon Cregier, Editor. Contact Dr. S.E. Cregier, Univ of P.E.I., Charlottetown, P.E.I. C1A 4P3 Canada.

HANDBOOK OF BEHAVIORAL TERMINOLOGY- Edward Barrows has started to compile a "handbook" of terminology related to animal behavior, with principal meanings, literature references, and derivation when possible included. If you have coined or know of a behavioral term you would like put in the handbook, please send the term, definition, and a complete citation of where it is found (if published). Thank you for your help. Edward M. Barrows, Dept of Biology, Georgetown University, Washington, DC 20057.

ANIMAL BEHAVIOR IN ARGENTINA- A guide containing valuable information for those interested in contacting Argentine animal behaviorists. Contact Mauricio R. Papini, Departamento de Ciencias Biologicas, Universidad de Buenos Aires, Ciudad Universitaria, Pab II, 1428-Buenos Aires, Argentina.

ARGENTINE SCIENTISTS NEED YOUR HELP- Because of several problems, mainly financial restrictions, Argentine scientists working in animal behavior lack access to most journals and books published in this area. To cope with this situation, a special library has been created at the Univeristy of Buenos Aires. If you have journals or books which could be given, and reprints of your own work, please send them to:

Mauricio R. Papini
Biblioteca de Comportamiento Animal
Departamento de Ciencias Biologicas
Universidad de Buenos Aires
Ciudad Universitaria, Pab. II
1428-Buenos Aires, Argentina

THANK YOU FROM POLISH COLLEAGUES- Jan Leonard recently received a letter from Dr. Jerzy (George) Chmurzynski thanking those who sent books and other materials for the library at the Mencki Institute in Warsaw, in response to the request published last year. He says that they received many valuable contributions and that the situation in Poland has now improved so that they expect to be able to buy foreign books in the future.

SUMMER FIELD COURSES in 1985 offered at Biological Field Stations are summarized in a poster prepared by the Organization of Biological Field Stations. Most offerings are intended for undergraduate and graduate students in Biology. For a copy, contact Dr. Richard W. Coles, Secretary OBFS, Washington University Tyson Research Center, PO Box 351, Eureka, MO 63025.

FOR SALE- a complete set of Animal Behaviour from its inception in 1957 to the present. Volumes #5-21 (1957-1973) are library bound. Volumes #22-32 (1974-1984) are unbound, but they can be bound also. Price is \$350, plus shipping. Early issues of Animal Behaviour Monographs thrown in free. Contact Dr. Carl Berg, Marine Biological Lab, Woods Hole, MA 02543.

BOB LANDIS WILDLIFE FILMS- announces the availability of Song Dog, a film documenting pack behavior of coyotes in Yellowstone's Lamar Valley. Contact Trailwood Films, PO Box 1421, Huron, SD 57350.

PsyETA- Psychologists for the Ethical Treatment of Animals is soliciting membership. Contact Kenneth Shapiro, Psychology Dept, Bates College, Lewiston ME 04240 for information.

SCIENCE AS A WAY OF KNOWING: EVOLUTIONARY BIOLOGY BY JOHN A. MOORE

[Secretary's Note: Following are excerpts from the first installment in an American Society of Zoologists project intended to offer suggestions for making first-year college and university courses in biology more effective. This is a very shortened version; the original can be found in the American Zoologist, 1984, 24: 467-534. The contrast between philosophies of knowledge, detailed discussion of current biological concepts, and rich bibliography make this contribution a valuable teaching aid.]

WHY A NEW EDUCATION PROJECT?

The state of education in the United States is widely regarded as a national crisis that severely compromises the present and future. However, members of the American Society of Zoologists, together with other biologists, are in a position to deal with some of the problems of education in a significant manner.

Inadequate biological education is especially serious, since biology is the science most frequently elected at all levels. For many students a biology course will not only introduce them to the world of life, but will also be their total experience with the world of science.

One measure of our failure in teaching may be seen in the present conflict between biologists and creationists. Ignorance and misunderstanding of the evolutionary process, and what is science and what is not, would not be so pervasive if we had discharged our professional responsibilities more effectively in recent decades.

The suggested approach

The title of our project summarizes in six words our philosophy of teaching science: science as a way of knowing. This philosophy will be presented briefly now in a series of suggestions and then put into practice in the specific proposals for teaching evolution.

No matter what major area of biology is being considered, we suggest that the following principles should be followed.

First, it should be made abundantly clear to the student what the problem or question is. Science is a way of seeking answers to questions about natural

phenomena, and it will be far easier for the student to understand the answers if he is aware that there is a question. This suggestion may seem too obvious to be mentioned, but recall some of the lectures you may have heard recently. Did you always know why the research had been done? Was it clear what problem was being illuminated by the data presented?

Second, try using the hypothetico-deductive approach in presenting topics to your students. This approach is not very different from the "common sense" procedures we use in solving everyday problems— a point worth emphasizing to your students.

Third, whatever data are obtained must share this essential characteristic: They must be obtainable by other scientists. That is, the data must be verifiable. If an important discovery is made, it is never fully accepted by the scientific community until it has been verified by other scientists. If the original discoverer has made an error, the error would likely be corrected when others attempt to verify the original report. Science tends to be a self-correcting way of knowing.

TEACHING EVOLUTIONARY BIOLOGY

What are the questions?

The hypothesis of evolutionary change smoldered in the human intellect from the days of the early Greeks. It came into full flame during the nineteenth century when interest in natural history was intensified. Travelers, scientists, and professional collectors brought back to western Europe a bewildering variety of new kinds of animals and plants of the world and even from the depths of the ocean.

As familiarity with living organisms increased, so did questions about them. The sorts of questions that eventually led to the concept of evolutionary change were varied, but the main ones seem to have been these three.

How could one account for the extraordinary amount of organic diversity? ...How could one explain the remarkable adaptations of living creatures? ...What is the basis of the scala naturae, or scale of nature, that saw all species of animals or plants as part of a continuum that, with small gaps, appeared to extend from the simplest to the most complex species?

Our problem is not so much what we teach but how we teach. The style of education must be set for those who wish to learn and not by those unable or unwilling to do so. Teaching must return to a place of distinction.

The traditional answer: Divine Creation

This explanation, itself thousands of years old, was well established in Western thought. It was Divine Creation, as described in Genesis. God had created everything, animals, plants, the earth, and the cosmos at some remote time in the past—some said as long ago as 4004 B.C.

The Darwinian answer: evolution

A hypothesis of evolution was certainly plausible but the statements of science must be based on probability and not plausibility. (Darwin) was fully aware that the writings of Lamarck and Chambers on evolution were thoroughly discounted.

Darwin tells us that [a] suggestion of Malthus was the key he sought—a mechanism for evolutionary change. He was well aware of variation among the individuals of a species— in minor ways to be sure. If some of the variant characters better adapt the individual to surviving and leaving offspring, wouldn't it be reasonable to suppose that, over the course of time, individuals of the better adapted type will make up most and eventually all of the population? They would simply outbreed the less adapted types of individuals.

Thus the normal variation that all naturalists agreed characterized species in nature would allow nature to select the "better" variations and slowly the species would change. Darwin referred to this phenomenon as natural selection and hypothesized that it could be the long sought mechanism of evolutionary change.

This hypothesis is testable, hence useful. We will now formulate a series of deductions and seek to test them.

If the hypothesis of evolution by natural selection is true:

- 1—there must be variation among organisms.
- 2—natural selection can be operative only if more offspring are born than survive.
- 3—there must be differences between the offspring that survive and reproduce and those which do not.
- 4—only those variations that are inherited are important.

If the hypothesis of evolution is to be established as true:

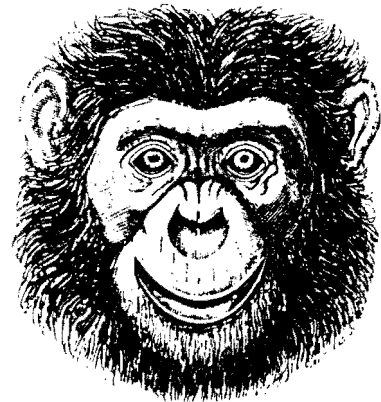
- 5—we must be able to obtain information on organisms that lived in the past.
- 6a—the species that lived in the remote past must be different from the species alive today.
- 6b—the older the sedimentary strata, the less chance of finding fossils of contemporary species.
- 7—we would expect to find only the simplest organisms in the oldest fossiliferous strata and the more complex ones to appear in more recent strata.
- 8—it must be possible to demonstrate the slow change of one species into another.
- 9—there should have been connecting forms between the major groups (phyla, classes, orders).
- 10—the age of the earth must be very great, possibly many millions of years old.

[Each deduction is thoroughly discussed and a detailed bibliography offered. Other deductions follow, as well as a discussion of the fossil record, genetic basis of evolution, gene frequencies, patterns of evolution, molecular evolution, and evolution and human welfare.]

CONCLUDING REMARKS

I believe that the time has come to accept the fact that the concept of evolution is the unifying theme of the biological sciences and what is taught in the first-year course should reflect this point of view.

A course in science must be an intellectual adventure. What is known is ephemeral. Science as a way of knowing is forever.



1985 ABS NATIONAL CONVENTION--- 23-28 JUNE AT RALEIGH NC

THE WOLFPACK WELCOMES YOU

North Carolina State University invites you, your family and guests to beautiful Raleigh. Below is pertinent information concerning the meetings, but a more detailed mailing will be sent out by our Host, George Earthalmus.

CLIMATE, AREA INFORMATION, AND RECREATION

Raleigh is located in the north-central piedmont section of the state. We recommend shorts and loose clothing but dressier attire may be required for night life at some of the local clubs. Within easy walking distance of the dorms, motel and conference center are at least three places to dance (country & western; rock'n disco; live-variety band). Five cinemas, fast food markets, drug stores, pizza/Italian food, pubs and an ABC liquor store are across the street from South Hall Dorm and the Mission Valley Inn. Maps of fun spots, restaurants, fishing, hiking, bird watching, waterskiing, museums and theaters will be included in your registration folder upon arrival. Bass fishing is excellent; Raleigh is graced with two new lakes (Jordan and Falls with 150 and 230 miles of shoreline, respectively). Pullen Park, a beautiful amusement park for picnicing, fun rides for children, public swimming and paddleboating are all 0.5 miles from South Hall Dorm. We highly recommend that you plan your trip with a family vacation in mind- coastal and spectacular mountain vacation sites can be found on the way.

HOUSING

Members and guests have a choice of two dorms (South Hall-air conditioned; Bragaw Hall- not air conditioned) and the Mission Valley Inn (across the street from South Hall). Those requesting South Hall will be assigned rooms on a first come basis and overflow will be automatically assigned to Bragaw Hall. Five-room suites will share a common bathroom. Those desiring formal lodging in the Mission Valley Inn should contact them directly at 2110 Avent Ferry Rd. & Western Blvd., Raleigh 27606 (919-828-3173 and toll free if calling within NC 800-334-4360; rates shown below). Shuttle buses will transport you to and from the conference center and will operate on a regular daily schedule.

Room	South Hall	Bragaw Hall	Mission Valley Inn
*Single/day	\$23	\$19	\$42
**Double/day	\$18	\$11	\$48

*Single = one person one bed

**Double = two persons two beds

CHILD DAY CARE

Private sitters can be obtained by calling the Sitters Registry (919) 876-0777. This service will provide well-qualified babysitters who will care for your child in your hotel or dorm room for a fee of \$3.50 per hour. Young World (919) 851-3612, a licensed day-care center for 6 week to 6 year olds, is located approximately one mile from our conference center. Fees are \$14 per day or \$41 per week. To assure that private sitters or space at Young World is available, those interested should call and make arrangements three weeks in advance.

TRAVEL TO RALEIGH/DURHAM

We have obtained ideal group rates for ABS members through Meridian Travel Services Inc., 2014 Cameron St., Raleigh, NC 27605 (919- 828-7431). Call collect and state "Animal Behavior Conference" for call acceptance. Eastern Airlines will provide unrestricted supersavers, free travel for every 50 tickets booked before April 30, and Winners will be notified by May 15. Also, at the banquet you may win two free first class, round trip tickets to anywhere in the USA. Those driving in can refer to the map presented in the Host's mailing.

MEALS

All meals will be provided by a very experienced and even acclaimed caterer, Baxley's. Their menu for lunch and dinner is diverse for carnivores and herbivores and it changes daily. All meals will be served buffet style and provide more than you can eat. As the caterer must plan for the size of each meal, YOU MUST DESIGNATE YOUR MEAL CHOICES IN ADVANCE ON THE PREREGISTRATION FORM. Although numerous fast food restaurants are near the conference center, they are normally taxed during lunch and breakfast; consequently, WE ASK (AND RECOMMEND) THAT YOU COMMIT AT LEAST TO THE LUNCHEON BUFFETS IN ADVANCE. Continental Breakfast- \$2.50; Luncheon Buffet- \$4.90, and Dinner Buffet- \$6.90.

Coffee and soft drinks will be available free all day in the halls of the conference center. A small snack bar within the building can service pay-as-you-go sandwich, donut and snack items.

BANQUET AND PICNICS

The Banquet will be held on Wed evening, 26 June. Free beer (with pay bar) all evening; southern style "pig pickin" (several whole pigs B-B-Q'd) and southern fried chicken all served from the cookers; and a local band perfect for aggressive dancers. DO NOT MISS THIS EVENT! Cost - \$15 per person; location- McKimmon Conf. Center.

A chicken BBQ on Sunday, 23 June, and a fish fry Friday evening, 28 June. Picnics will begin at 6 pm at the plaza of the University Student Center. Free beer. Cost \$4.95.

ATHLETIC FACILITIES

Jogging and cross country fields/trails are located near the dorms and the Mission Valley Inn. Weight rooms, the pool, handball/racket ball courts, basketballs, etc. require the purchase of a \$1 activity card. You provide towels and soap.

FIELD TRIPS

Field trips will include the Duke Primate Center (\$5), the NCSU School of Veterinary Medicine (\$1) and the N.C. Museum of Art (free). Informal birdwatching trips to local sites are also planned; members' cars will be used.

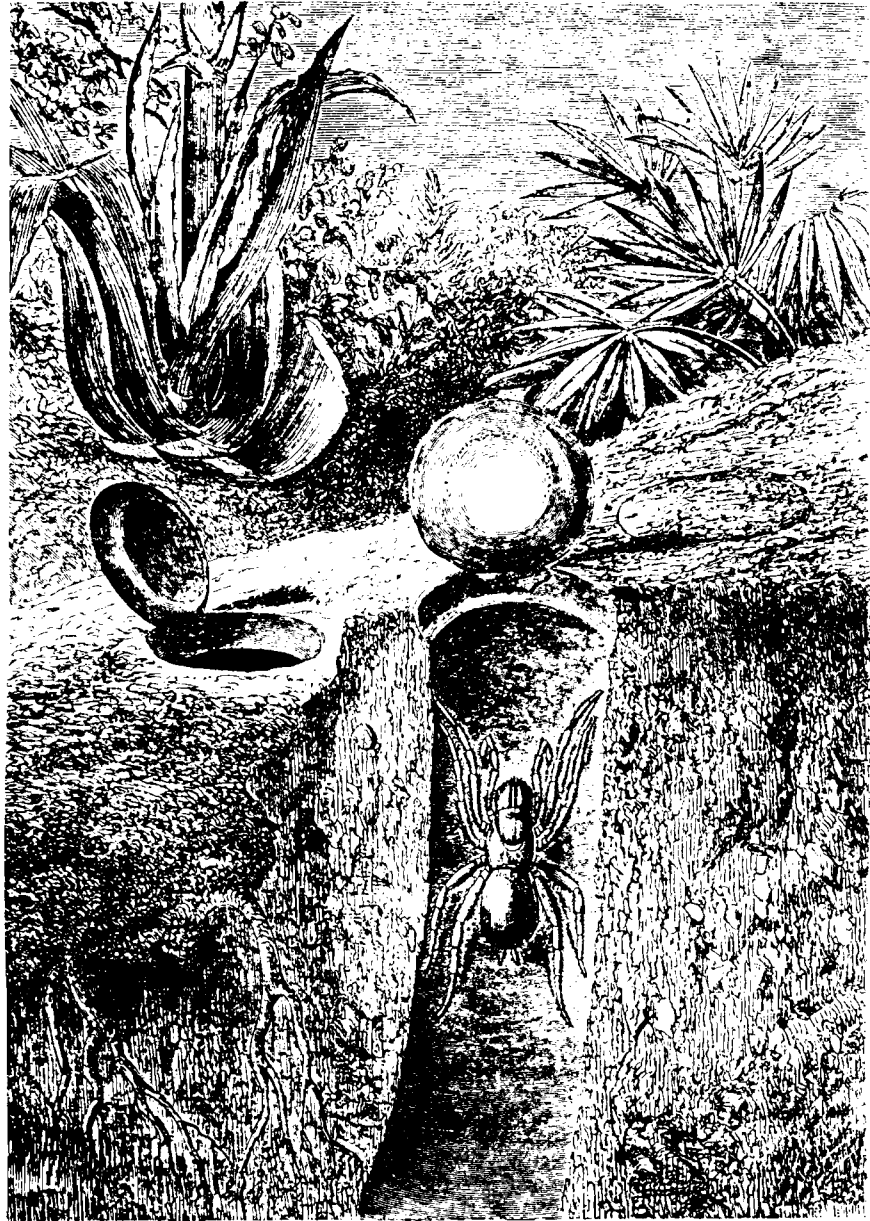
REGISTRATION

Registration will begin at 12 noon on Sunday, 23 June 1985 in the McKimmon Center and will continue until 9 pm. The center is located at the corner of Western Blvd & Gorman (SW corner of campus). Additional periods for registration are Mon-Wed from 8 am to 5 pm. Registrants will receive a folder containing abstracts, maps, meal tickets, name tag, paper pad and pen, special events notices, and details of fun spots. Remember that you must select meals during the preregistration period in order to obtain meals at the conference center. A refund will be processed less \$15 clerical/administrative fee if your cancellation is received on or before 3 June 1985. Any cancellations after that date will result in forfeit of the registration fee.

REGISTRATION FEES

	ABS Member	Non-Member	Student Member	Guest/Spouse
Advance	\$46	\$55	\$26	\$30
Late (post 5/15)	\$51	\$60	\$31	\$35
On-Site	\$56	\$65	\$36	\$40

IMPORTANT: PLEASE FILL OUT THE FORM ON THE TOP HALF OF THE INSIDE BACK COVER OF THIS NEWSLETTER. THIS WILL HELP IN PROVIDING EFFICIENT SHUTTLEBUS SERVICE FROM THE AIRPORT TO THE CAMPUS. THANK YOU.





When you have confirmed your flight schedule to/from Raleigh-Durham Airport, please fill out this form and mail it to the address below so that we can arrange for shuttle buses:

ABS-1985
Attn. Mr. Frank Emory
Box 7401, NCSU
Raleigh, NC 27695-7401

Arrival: Date: _____ Time: _____

Airline: _____ Flight # _____

Departure: Date: _____ Time: _____

Airline: _____ Flight #: _____

Name: _____ Institution: _____

Address: _____ Phone: (____) _____

City: _____ State: _____ Zip: _____

-----CUT HERE-----

APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY

Name in full _____ Degrees _____

Mailing address _____

Institution _____ Position _____

_____ Member- \$27.00 (U.S.) Receive ANIMAL BEHAVIOR and NEWSLETTER

_____ Student Member- \$17.00 Receive ANIMAL BEHAVIOR and NEWSLETTER

_____ Spouse Member- \$9.00 Receive NEWSLETTER

-----Non-Member Subscription (Library, etc)- \$7.00 Receive NEWSLETTER

Membership for calendar year 19__.

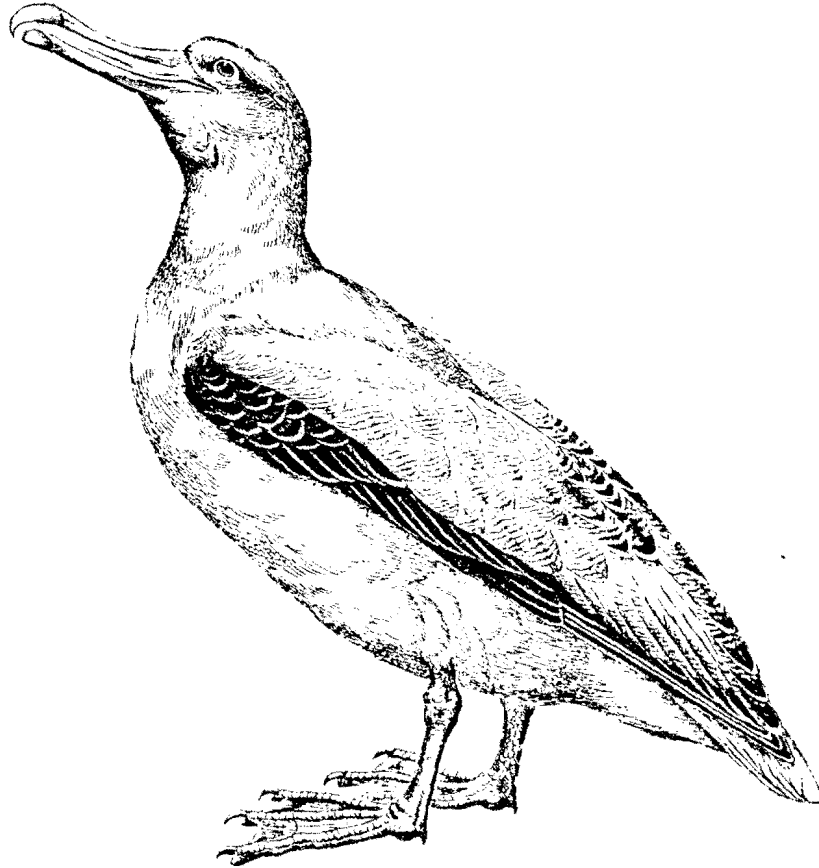
Specific area of interest _____

My student membership application is endorsed by (Dept Head, ABS member or fellow):

name _____ signature _____

This application form should be sent with remittance (make check payable to ANIMAL BEHAVIOR SOCIETY or include your MasterCard _____ or Visa number _____) to:

H. Jane Brockmann, ABS Treasurer
Dept of Zoology, Bartram Hall
University of Florida
Gainesville, FL 32611



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