



# NEWSLETTER

## Animal Behavior Society

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A quarterly publication

David Chiszar, *ABS Secretary*

Maura Carew, *Associate Editor*

*Department of Psychology, University of Colorado, Campus Box 345, Boulder, Colorado, 80309*

### ABS ELECTION RESULTS

A total of 239 members voted (9.6% of the membership), compared to 7.4% in 1988 and 12.0% in 1987. The Constitutional Amendment passed, removing the ABS Secretary as an *ex officio* member of the Membership Committee. The Certification Instrument (proposed by the Committee on Issues in Applied Animal Behavior) was approved by 76.5% of those voting. An error (my fault) appeared in the biographical sketch of one of the candidates for Second President-Elect, so that part of the election will be re-run. **BALLOT ENCLOSED.** Please vote, and please forgive my error in the August Newsletter.

Two ABS officers were elected; they will take office 16 June 1990.

**SECRETARY: Janis W. Driscoll**  
**MEMBER-AT-LARGE: Martin Daly**

Two persons were elected to the U.S.E.C.C., effective Sept 1989:

**MEMBER of U.S.E.C.C. and delegate to I.E.C. Council:**  
**Charles Snowdon**  
**MEMBER of U.S.E.C.C. and alternate to I.E.C. (in the event the delegate is unable to attend): Susan Riechert.**

### CONTENTS REQUIRING RESPONSES

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Call for Papers, 1990 ABS Meeting . . P. 12-15

### ANIMAL BEHAVIOR SOCIETY DIRECTION OF CORRESPONDENCE

**ABS NEWSLETTER & general correspondence to the society:**  
David Chiszar, Dept of Psych, Campus Box 345,  
Univ of Colorado, Boulder CO 80309  
**ANIMAL BEHAVIOUR--Manuscripts and editorial matters:**  
Lee Drickamer, Dept of Zoology  
Southern Illinois Univ  
Carbondale, IL 62901  
**ANIMAL BEHAVIOUR--Missing, defective, or back issues:**  
change of address:  
Robert Matthews, Dept of Entomology  
Univ of Georgia, Athens GA 30602

### NEWSLETTER

Contributions for the ABS Newsletter are welcome. Deadline for receipt of materials for the February issue is 15 Jan 1990. Send to D. Chiszar, address above.

### ABS ANNUAL MEETING SITE

The 1990 meeting will be at SUNY Binghamton, 10-15 June. Local host: Stim Wilcox, Dept Biol Sci, SUNY, Binghamton NY 13901. Phone: 607-777-2423.

### SEVENTH ABS FILM FESTIVAL: CALL FOR FILMS

ABS encourages members and nonmembers to submit videos or films for consideration at the next film festival. Send films or videos to Jack Demarest, Dept Psych, Monmouth College, West Long Branch NJ 07764 or call him at 201-571-3447. All materials will be viewed and returned quickly. The Seventh Film Festival will be held during the 1990 Annual Meeting of ABS at SUNY, Binghamton.

### ABS OFFICERS

**PRESIDENT:** Patrick Colgan, Biology Dept, Queen's Univ, Kingston, Ontario, Canada K7L 3N6.  
**1st PRESIDENT-ELECT:** Charles Snowdon, Psychology Dept, Univ Wisconsin, Madison WI 53706.  
**2nd PRESIDENT-ELECT:** H. Jane Brockmann, Dept Zool, Univ Florida, Gainesville FL 32611.  
**PAST-PRESIDENT:** John Fentress, Dept Psych and Biol, Dalhousie Univ, Halifax, Nova Scotia, Canada B3H 4J1.  
**SECRETARY:** (1987-1990) David Chiszar, Dept Psych, Campus Box 345, Univ Colorado, Boulder CO 80309  
**TREASURER:** (1988-1991) Robert Matthews, Dept Entomology, Univ Georgia, Athens, GA 30602.  
**PROGRAM OFFICER:** (1989-1992) Lynne Houck, Dept Biol, Univ Chicago, Chicago IL 60637.  
**PARLIAMENTARIAN:** (1989-1992) George Waring, Dept Zool, Southern Illinois Univ, Carbondale IL 62901.  
**EDITOR:** (1988-1991) Lee Drickamer, Dept Zool, Southern Illinois Univ, Carbondale, IL 62901.  
**MEMBER-AT-LARGE:** (1987-1990) Julia Chase, Biol Dept, Barnard College Columbia Univ, New York, NY 10027.  
**MEMBER-AT-LARGE:** (1988-1991) George Barthalmus, Dept Zool, North Carolina State Univ, Raleigh, NC 27650.  
**MEMBER-AT-LARGE:** (1989-1992) Steven Austad, Dept Biol, Harvard Univ, Cambridge MA 02138.

CANDIDATES FOR SECOND PRESIDENT-ELECT

**Michael D. Beecher**

Birthdate: March 20, 1940  
Education: B.A. 1963 Reed College  
Ph.D. 1970 Boston Univ

Present Position: Professor, Animal Behavior Program,  
Dept of Psych, Univ of Washington, Seattle

Research Interests: Evolution and behavior; behavioral  
ecology and mechanisms of animal communication;  
kin recognition; animal sensory-perceptual systems.

ABS Activities: Editorial Board, *Animal Behaviour*,  
1985-1988; Allee Competition Judge, 1986; Chair,  
Ethics Committee, 1987-90.

**Gail R. Michener**

Birthdate: February 25, 1946  
Education: B.Sc. 1967 Univ of Adelaide, Australia  
Ph.D. 1972 Univ of Saskatchewan,  
Canada

Present Position: Associate Professor, Biol Sci, Univ of  
Lethbridge, Alberta, Canada

Research Interests: Behavioral ecology and life history of  
birds and mammals; mating systems; sexual  
differences in behavior and ecology.

ABS Activities: Member-at-Large 1985-1988; Chair,  
ABS Research Grant Committee 1987-1988;  
Member, ABS Animal Care Committee 1988-1989;  
Allee Award Judge 1984, 1986; ABS Member since  
1970.

BALLOT: 1989 GENERAL ELECTION OF  
THE ANIMAL BEHAVIOR SOCIETY

PLEASE FILL OUT BALLOT, DETACH OR PHOTOCOPY  
ENTIRE PAGE, AND  
MAIL IT IN AN ENVELOPE BEARING YOUR NAME TO:

DAVID CHISZAR, SECRETARY ABS  
DEPT of PSYCHOLOGY, CAMPUS BOX 345  
UNIVERSITY of COLORADO  
BOULDER, CO 80309

**BALLOTS POSTMARKED AFTER 15 JAN 1990  
CANNOT BE COUNTED**

ACCORDING TO ABS POLICY THE ENVELOPE  
CONTAINING YOUR BALLOT  
MUST BEAR YOUR NAME

You may cast write-in votes. Notice that we are electing one  
officer of ABS (term begins 16 June 1990). All ABS  
members (regular members, student members, spouse  
members, and active fellows) are eligible to vote. Results will  
be announced in the February 1990 ABS Newsletter. Please  
vote. The order of listing candidates may influence voting.  
Please avoid this bias and read the resumés of the candidates.  
This year the candidates are listed in alphabetical order.

Rank the candidates by placing a 1 in the blank following your  
first choice, a 2 in the blank following your second choice,  
etc.

FOR SECOND PRESIDENT-ELECT:

Michael D. Beecher \_\_\_\_\_

Gail Michener \_\_\_\_\_

Write in \_\_\_\_\_



**SUBJECT AREAS IN ANIMAL BEHAVIOR**

This subject listing is based on the categories adapted by ANIMAL BEHAVIOR ABSTRACTS

**APPLIED ETHOLOGY**  
 companion animals  
 domestic animals  
 wildlife  
 other: \_\_\_\_\_

**BEHAVIOR ECOLOGY**  
 foraging  
 habitat selection  
 orientation/navigation/migration/  
 homing  
 predator/prey interactions  
 territoriality  
 other: \_\_\_\_\_

**BEHAVIORAL GENETICS**

**BIOLOGICAL RHYTHMS**

**COMMUNICATION**  
 acoustic  
 chemical  
 visual  
 other: \_\_\_\_\_

**DESCRIPTIVE STUDIES/  
 NATURAL HISTORY**

**DEVELOPMENT/ONTOGENY**

**DRUG STUDIES**

**ENDOCRINE/HORMONAL  
 INTERACTIONS**

**EVOLUTION/SURVIVAL VALUE**

**FEEDING/INGESTION**

**HUMAN ETHOLOGY**

**LEARNING**  
 avoidance  
 complex  
 discrimination  
 habituation/extinction  
 memory  
 reinforcement  
 other: \_\_\_\_\_

**LOCOMOTION**

**METHODOLOGY**  
 data collection/analysis  
 theoretical models  
 other: \_\_\_\_\_

**NEURAL MECHANISMS**  
 brain lesions  
 brain stimulation  
 neuroethology  
 neurophysiological correlates  
 other: \_\_\_\_\_

**PLAY**

**SELF MAINTENANCE**

**SENSORY MECHANISMS**  
 audition  
 chemical  
 vision  
 other: \_\_\_\_\_

**SLEEP**

**SOCIAL BEHAVIOR**  
 aggression  
 cooperation/altruism/helping  
 dominance  
 parental/filial interactions  
 sex/reproduction  
 sexual selection  
 social spacing  
 sociality  
 other: \_\_\_\_\_

**MISCELLANEOUS**  
 \_\_\_\_\_

**ANIMAL GROUP LISTING**

This listing of animal taxa follows the phylum classification used by BIOLOGICAL ABSTRACTS

<b>PROTOZOA</b>	<b>ANNELIDA</b> hirudinea oligochaeta polychaeta	<b>CHELICERATA</b> arachnida acarina other: _____	<b>AVES</b> anseriformes apodiformes apterygiformes caprimulgiformes charadriiformes ciconiiformes columbiformes coraciiformes cucliformes falconiformes galliformes gaviiformes gruiformes musophagiformes passeriformes pelecaniformes piciformes podicipediformes procellariiformes psittaciformes rheiformes sphenisciformes strigiformes tinamiformes trogoniformes	<b>MAMMALS</b> <b>ARTIODACTYLA</b> bovidae camelidae cervidae giraffidae hippopotamidae suidae tayassuidae <b>CARNIVORA</b> canidae felidae hyaenidae mustelidae procyonidae ursidae viverridae <b>CETACEA</b> <b>CHIPROTERA</b> <b>ENDENTATA</b> <b>INSECTIVORA</b> <b>LAGOMORPHIA</b> leporidae ochotonidae <b>MARSUPIALIA</b> <b>MONOTREMATA</b>  <b>PERISSODACTYLA</b> equidae rhinocerotidae; tapiridae	<b>PHOLODOTA</b> <b>PINNIPEDIA</b> <b>PRIMATES</b> callitrichidae cebidae cercopithecidae hominidae indridae lemuridae lorisidae pongidae tarsiidae tupaliidae <b>PROBOSCIDAE</b> <b>RODENTIA</b> castoridae caviidae cricetidae dasyproctidae dipodidae heteromyidae muridae sciuridae other: _____
<b>PORIFERA</b>					
<b>CNIDARIA</b>	<b>ECHIUROIDAE</b>				
<b>CTENOPHORA</b>	<b>LINGUATULIDA</b>	<b>ECHINODERMATA</b> asteroidea crinoidea echinoidea holothuroidea ophiuroidae			
<b>PLATYHELMINTHES</b> cestoda trematoda turbellaria	<b>TARDIGRADA</b>				
<b>ACANTHOCEPHALA</b>	<b>ARTHROPODA</b> crustacea myriapoda	<b>CHORDATA</b> pisces agnatha chondrichthyes osteichthyes			
<b>ASCHELMINTHES</b> nematoda rotifera	<b>INSECTA</b> coleoptera diptera heteroptera hemiptera hymenoptera isoptera lepidoptera odonata orthoptera other: _____	<b>AMPHIBIA</b> apoda caudata salientia			
<b>ECTOPROCTA</b>		<b>REPTILIA</b> chelonia crocodilia sauria serpentes			
<b>BRACHIOPODA</b>					
<b>MOLLUSCA</b> cephalopoda gastropoda pelecypoda					
<b>SIPUNCULOIDAE</b>					

## ABS COMMITTEES (September 1989)

### Animal Care

Janis Driscoll (Chair), Judy Gibber, Harold Herzog, Craig Kinsley, Scott Line, Joy Mench, Gail Michener, Melinda Novak

### Career Awards

John Fentress (Chair), Gary McCracken, Scott Robinson, Linda Sorensen, Kim Sullivan, George Uetz

### Education

Larry Williams (Chair), Katherine Bruce, Julia Chase, Jerry Eberhart, Peter Judge, Carol Saunders

### Endowments

No members yet.

### Ethics

Michael Beecher (Chair), Sue McDonnell, Ron Rutowski, Bedford Vestal

### Film

Jack Demarest (Chair), Dorothy Fragaszy, Steven Hopp, Tom Rambo, Carolyn Ristau, Eric van den Berghe

### Issues in Applied Animal Behavior

Phil Lehner (Chair), Peter Borchelt, Ben Hart, Amy Marder, Patricia McConnell, Sue McDonnell, John Wright, Margaret Young

### Membership

Ira Perelle (Chair), Vickie Backus, Jill Mellen, Stim Wilcox

### Organization and Bylaws

George Waring (Chair), Jed Burt, Jeffrey Lucas, Patricia Schwagmeyer

### Policy and Planning

Charles Blaich (Chair), David Duvall, Christopher Evans, Mandy Medvin

### Public Affairs

George Barlow (Chair), Cheryl Asa, Vic DeGhett, Irene Pepperberg, Ann Rypstra, Meredith West

### Research Grants

Julia Chase (Chair), Randall Kyes, Doug Mock, Patricia Schwagmeyer, Stephen Vessey, Orrey Young

## OPPORTUNITIES

**EDITOR'S NOTE.** Opportunities and announcements are published as soon as possible (i.e., in the next issue of the Newsletter). It sometimes happens, however, that a position is filled between the time we receive the advertisement and the time of the next quarterly issue of the Newsletter (i.e., a period of 2-3 months). Accordingly, we apologize for inconveniences this may cause, and we recommend that interested persons precede their formal responses to advertisements with a phone call to ascertain that the position is still available. (If an ad appears in the Newsletter, the editors have received no indication that the position has been filled as of press time.)

**FIELD ASSISTANTS NEEDED-** 1 March - 20 June 1990 to assist with long-term ecological/behavioral study of blackbirds. Will be responsible for monitoring breeding behavior of individual birds, trapping and banding, helping with behavioral experiments and radio-tracking, taking blood samples. Ongoing investigations are related to mate choice (including DNA/paternity studies), site selection, territoriality, and cooperative behavior. Study site is at Columbia NWR in eastern

Washington. Modern living in nearby town. Salary, probably \$500/mo., more than covers living expenses. People with field experience given preference. Send resumé and a letter of recommendation to Les Beletsky or Gordon Orlans, Dept Zool, NJ-15, Univ of Washington, Seattle WA 98195. Phone: 206-543-1812.

**THE FIELD BIOLOGY TRAINING PROGRAM-** offers a full semester of college credit to students who participate in ongoing environmental studies of tropical forests and avian migrants in Belize, Central America and Puerto Rico; migration and breeding ecology of landbirds on the Gaspé Peninsula, Quebec; colonial bird ecology; marine mammal distributions in the Northwest Atlantic; and others. Transfer credit through our affiliates. Financial aid is available. For information write: Field Biology Training Program, MANOMET BIRD OBSERVATORY, P.O. Box 936, Manomet MA 02345. Phone: 508-224-6521.

**RESEARCH APPRENTICESHIPS-** (2-4 mo) in ongoing research in avian, marine mammal, estuarine, and tropical forest ecology. Available year-round. \$250/mo and room provided. Apprenticeships are designed for beginning biologists with some field experience. Write for project details to: Research Apprentice Program, MANOMET BIRD OBSERVATORY, P.O. Box 936, Manomet MA 02345. Phone: 508-224-6521.

**RESEARCH ASSISTANTSHIP POSITION AVAILABLE-** 1 Feb 1990 full-time, year-round with possible renewal subsequent years at the Manomet Bird Observatory in Plymouth MA. Job involves field work, data analysis and interpretation, and supervision of field assistant(s) for an ecological study of mixed-species heronries in New York City. Research Assistant will spend 7-8 months at MBO where free room will be provided. During the 4-5 month field season, the Research Assistant will reside in New York City area (Staten Island). Previous field experience necessary; experience with outboard motors desirable. Analytical experience (preferably SAS) also desirable. Salary and benefits commensurate with experience. Interested persons should send a resume, course listing, names and phone numbers of two references, and description of research experience to: Katherine C. Parsons, Director, Harbor Herons Project, Manomet Bird Observatory, Box 936, Manomet MA 02345. Phone: 508-224-6521.

**STAFF SCIENTIST POSITION-** at the Caribbean Primate Research Center, University of Puerto Rico, Medical Sciences Campus, Cayo Santiago Research Facility. The successful candidate will be expected to participate in the ongoing behavioral, demographic and biomedical research program; develop independent research projects; and assist the Scientist-in-Charge with the management of this unique free-ranging colony of rhesus macaques. Candidates must hold a Ph.D. or equivalent degree in a field or primatology. Applicants should send a letter of interest, curriculum vitae and the names of three references to: John D. Berard, Scientist-in-Charge, Cayo Santiago Facility, Caribbean Primate Research Center, P.O.Box 906, Punta Santiago PR 00741.

**VOLUNTEER POSITIONS-** between 15 March and November 1990 at the American Museum of Natural History's Southwestern Research Station in Portal, Arizona for approximately 20 persons. The volunteer program is run annually and offers students in biological sciences outstanding opportunities to observe and become involved with scientists doing field research. Food and lodging are provided to volunteers in exchange for 4 hrs per day of routine chores, with the remaining time available for research activities.

The program is open to both undergraduates and graduate students; the latter may pursue their own research projects. Faculty knowing of promising students should alert them to this opportunity for professional experience toward, development of and evaluation of their career goals.

Appointments are for part of the period, with a minimum appointment of 6 wks. Applicants for spring positions (March-May) should submit forms by 15 Feb 1990, summer volunteers (June-August) by 1 April 1990, and fall volunteers (Sept-Nov) may apply any time.

For application forms, write: **Resident Director**, Southwestern Research Station of the American Museum of Natural History, Portal AZ 85632 USA. Phone: 602-558-2396.

**SHORT-TERM FELLOWSHIPS IN TROPICAL BIOLOGY-** are available to conduct research at the Smithsonian Tropical Research Institute (STRI) in the Republic of Panama. Fellowships are primarily for graduate students interested in exploring research possibilities at STRI. Awards are occasionally made to undergraduates or postdoctoral applicants with no previous tropical experience. Fellowships are for 3-months duration and include a living stipend, airfare and research allowance. Awards are made four times a year; application deadlines are 15 Feb, 15 May, 15 Aug, and 15 Nov. Applicants will be notified of decisions 6 wks after the application deadline.

STRI is an international center for advanced research in tropical biology (ecology, human ecology, paleoecology, evolution, behavior, plant physiology, molecular evolution) and archaeology. The Institute has a permanent staff of 26 and supports visiting scientists and students. STRI facilities include: A field station at Barro Colorado Island and living and working quarters in nearby Gamboa (tropical moist forest); living quarters at Fortuna in Western Panama (montane forest); marine laboratories on the Pacific and Atlantic coasts, a field station in the Caribbean, and a research library. For application, contact: **Office of Education**, Smithsonian Tropical Research Institute, APO Miami 34002-0011. FAX (507) 62-6084.

**RESEARCH ASSOCIATE-** Requires Ph.D. (A.B.D. considered) in Psychology, Zoology, or Anthropology, and experience in behavioral research. Work directly under Director of a breeding colony of chimpanzees (*Pan Troglodytes*). Responsible for assistance with study design, analysis, and write-up. Training and daily supervision of Staff Observers and Interns. Maintain research records. Assist in the collection and computer entry of behavioral data. Requires solid background in statistics, good organization, managerial, and communication skills, and ability to work well with students and other investigators. Salary negotiable. Excellent benefits. Equal opportunity employer. Send letter of interest with requested salary, resumé, and three letters of reference to: **Jo Fritz**, Director, Primate Foundation of Arizona, P.O. Box 86, Tempe AZ 85280. Phone: 602-832-3780. Applications accepted until position is filled. **NOTE:** All personnel must have a negative T.B. skin test and a negative Hepatitis B surface antigen test prior to employment.

**POSTDOCTORAL POSITION-** available for one year (possibility of renewal) for research on the ecology or ecophysiology of reproduction in stickleback fishes. Areas of current interest in our laboratories include: parental investment theory, ecological and physiological costs of reproduction, alternative reproductive tactics and thermal physiology. We have facilities for either laboratory or field work at Isle Verte, Quebec. The candidate would be expected to start by 1 April 1990 as most field and laboratory work on sticklebacks in Quebec is done in May and June. Salary offered is \$20,000. For any candidate having their own salary (NSERC postdoctoral

fellowship, FCAR (Quebec) postdoctoral fellowship etc.), we can provide an \$8,000 per annum supplement. Interested candidates should contact either (before 15 Dec 1989): **G. J. FitzGerald** or **H. Guderly**, Dept Biol, Laval Univ, Ste-Foy, Quebec, G1K 7P4, Phone: 418-656-2469 or 418-656-3184.

**UNIV OF CALIFORNIA PRESIDENT'S FELLOWSHIP PROGRAM (1990-1991)-** offers postdoctoral fellowships to enhance the competitiveness of outstanding minority and women scholars for academic appointments at major research universities, such as the Univ of Calif. Awards are for one academic year with renewal for a second year pending demonstration of satisfactory progress. Stipends are \$24,000-\$28,000 plus health benefits and up to \$4,000 for research expenses. Applicants must be U.S. citizens or permanent residents, and hold a Ph.D. from an accredited university. Preference is given to minority and women candidates historically underrepresented in higher education. Applications are encouraged from African-Americans, American Indians, Asian Americans, Filipinos, Mexican Americans and Latinos, and from white women in the sciences, mathematics and engineering. Further information and application materials may be obtained from: **The President's Fellowship Program**, University Hall, Berkeley CA 94720. Phone: 415-643-6507. Application deadline is 15 Dec 1989.

**SWRS STUDENT RESEARCH GRANTS, 1990-** The American Museum of Natural History will award several research grants (\$200-\$1,000) to graduate students, or recent postdoctoral students, in support of studies undertaken at the Southwestern Research Station in Portal AZ. The 35-year-old research station is located at 5400 ft elevation in the Chiricahua Mountains of southeastern Arizona. Easy road access to five Life-zones, Lower Sonoran to Hudsonian, provides many unique opportunities for researching one of the most species-diverse biota in North America. Applications (to be filed by 15 Feb 1990) are available from: **Office of Grants and Fellowships**, American Museum of Natural History, Central Park West at 79th St., New York NY 10024.

**AWARDS FROM THE JORDAN FUND-** Applications are solicited for grants from the Guy D. Jordan Fund of the American Cichlid Association. The goal is to support research on any aspect of the biology of cichlid fishes, irrespective of status, nationality, or membership in ACA.

Individual grants are typically in the range of \$400-\$1,000, depending on the amount available (currently around \$3,000) and the number and quality of applications. Awards will not fund salaries, stipends, tuition, single expensive items, or indirect costs.

The text of the application, including a brief but informative title, should consist of no more than 5 pages (double-space, 1" margins and 10 or 12 point font). The Introduction should place the research in the relevant literature, clearly state the objectives, and explain the significance of the anticipated findings. The Methods section shall be sufficiently detailed to assess the reality of the project in relation to the stated objectives. Append a separate section for Literature Cited.

Also append a curriculum vitae (not to exceed one page) with home address, phone number and, for citizens of the U.S.A., a social security number. List separately any personal publications within the last 5 yrs.

Provide a detailed budget, listing the items in order of priority, if possible, because the review committee may find it necessary to recommend funding at a level less than the amount requested. Give a separate section justifying the budget items. One yr after the award, the recipient shall submit an accounting of expenditures and return any unspent money.

A condition of accepting an award is that the recipient shall publish one or more popular accounts in the Buntbarsche Bulletin. The investigator is also expected to publish the findings in a refereed scientific periodical. In addition, the recipient shall acknowledge support from the Jordan Fund in any publication that results in whole or in part from said support.

The original and 3 copies of the application, postmarked no later than 1 March 1989 should be sent to Dr. Eric H. Hanneman, ARL Division of Neurobiology, 611 Gould-Simpson, Univ of Arizona, Tucson AZ 85721. The awards will be announced during the summer convention of the American Cichlid Association.

**EDITOR'S NOTE:** I only recently received this announcement (in spite of the 1 March 1989 deadline). I suggest that interested readers contact Dr. Hanneman to learn if another competition will be held in 1990.

**FIELD ASSISTANTS-** from early March to early July 1990 are needed to help with ongoing long-term studies of the behavioral ecology of Acorn Woodpeckers and Western Bluebirds at Hastings Reservation (UC Berkeley) near Monterey CA. Duties, depending on species, include radio telemetry, nest watches, banding, and bleeding birds. Experience with birds desirable; enthusiasm a must. Positions include \$300 monthly stipend and free housing. Send resume with references to Mark Stanback / Phillip Hooge / Walt Koenig, Hastings Reservation, 24001 Martin Rd., Carmel Valley CA 93924. Phone: 408-659-2908.

**DEPT HEAD IN PSYCHOLOGY--UNIV OF TENNESSEE KNOXVILLE-** (Primary campus of the state univ and land-grant institution). Desired starting date is August 1990. The department of 25 full-time and 10 part-time faculty members conducts research and offers graduate education in a variety of specialties, including an APA accredited program in Clinical Psychology. There are approximately 400 undergraduate majors and 130 graduate students in a student body of 25,000. The successful candidate must have a Ph.D. in Psychology; a demonstrated capacity for leadership; an established record of scholarship, research and teaching; and an understanding of and demonstrated commitment to equal employment opportunity and affirmative action. The area of specialization is open, and the salary commensurate with qualifications. Applications will be reviewed beginning 1 Nov 1989. Send vitae and names of 5 references to Professor Lee L. Riedinger, Chair, Psychology Search Committee, The Science Alliance, 101 South College, The Univ of Tennessee, Knoxville TN 37996-1328. UTK is an E.E.O./Title IX/Section 504 Employer.

**VOLUNTEER FIELD ASSISTANTS-** for a field study on black bear behavior and ecology in northern Labrador. The study involves the trapping and radiotagging of bears in spring, followed by behavioral observations throughout the remainder of the study period (May - October). The study area (Hebron) is remote (access by charter only, no phone, no mail, often no radio contact), living conditions are primitive, weather can be miserable, and insects can be a nuisance. Travel is by snowmobile in May, boat in summer, and on foot when weather or ground conditions permit nothing else. Only individuals in excellent health with prior experience in wilderness living and a love of barren solitude should apply. A good sense of humor in adversity is a must, and a knowledge of small engine mechanics would be very helpful. Work will teach skills in trapping, tagging, VHF and UHF (satellite) telemetry, behavioral observation and data analysis. Room and board (such as they are) and travel expenses from Goose Bay, Labrador, will be provided. Resumes (including field experience) and two letters of

recommendation should be sent to: Fred Harrington, Mt. St. Vincent Univ, Halifax, Nova Scotia, Canada B3M 2J6. Phone: 902-443-4450 or 902-443-6175.

**SUMMER FELLOWSHIPS--FIELD BIOLOGY-** Iowa Lakeside Laboratory announces the FOUNDER'S FELLOWSHIP for the summer of 1990 in field biology for predoctoral students or recent Ph.D. graduates. The stipend is \$2,000, tuition free; fellows pay modest fees for room/board and lab space. The fellowships honor our founder, Thomas H. Macbride.

Applicants will be doctoral candidates or graduates whose work has a field component for which a summer at our biology station would be especially profitable. Applicants should be at the level of independent investigator.

Lakeside Lab is in northwestern Iowa on recent glacial terrain, with adjacent lakes, wetlands, virgin prairie, prairie rivers, and pockets of forest. The lakes country is continuous to the north and the Great Plains to the west. Our own 55 ha grounds border large and deep West Okoboji Lake; we have forest and manipulable grassland. Conditions: rustic but not primitive, an air of relaxed intensity, food unbelievable. Research labs are relatively new and we have a small library.

Interested applicants should write the director for more about the area and facilities. An application will contain a cover letter, vitae, and a 1- or 2-page synopsis of the proposed project. Specific reasons why our station is so suitable are critical to the application. Two letters are requested, including one from the research sponsor. Applications will be considered up to 1 April 1990 and should be sent to: Robert W. Cruden, Acting Director, Professor of Botany, The Univ of Iowa, Iowa City IA 52242.

**POSTDOCTORAL TRAINEESHIPS IN ETHOLOGY-** The Graduate Program in Ethology at the Univ of Tennessee announces NIH traineeships starting around 1 July 1990. Trainees are expected to establish a research program in human or nonhuman ethology focusing on communication (development, genetics, or physiology). A list of faculty, current research interests, and application guidelines are available upon request. Application deadline: 1 Feb 1990. Direct inquiries to: Dr. Gordon M. Burghardt, Dept of Psychol, Univ of Tennessee, Knoxville TN 37996.

**GRANTS FOR ORNITHOLOGICAL RESEARCH-** The American Ornithologists' Union solicits applications for research in all areas of avian biology, including behavior. The Alexander Wetmore Memorial Fund and the Josselyn Van Tyne Memorial Fund were established primarily to provide support for students or others who have no access to major granting agencies. The total amount per award is usually about \$500-\$1000. Applicants must be members of the AOU. Student Membership is \$18, and Regular Membership is \$35. Dues should be sent directly to the Ornithological Societies of North America, P. O. Box 21618, Columbus OH 43221-0618. Deadline for receipt of applications is 1 Feb 1990. Request application forms or more information from: Mary Victoria McDonald, Chairperson, AOU Research Awards Committee, Conservation and Research Center of the Smithsonian, Front Royal VA 22630. Phone and FAX number: 703-635-4166.

**PSYCHOLOGY AND ANIMAL WELFARE:  
RESEARCH AND ESSAY COMPETITION**

*Sponsor:* Psychologists for the Ethical Treatment of Animals (*PsyETA*).

**Eligibility:** There are three separate competition categories: High School, Undergraduate Psychology and Graduate Psychology or allied fields (e.g. counseling, education).

**Entries:** All submissions should address the ethical treatment of animals. The student should be the sole author, though a faculty advisor may assist. Entries should be submitted in triplicate.

**High School:** An essay or project of not more than 10 double-spaced typed pages. Possible topics include alternatives in the classroom, a survey of attitudes towards animals or a description of a personal experience.

**Undergraduate:** Library or empirical research of not more than 20 pages. Topics would include historical, philosophical, or political issues in animal welfare, or the treatment of animals in popular culture. Possible empirical research would include alternatives to animals in research or education, or methods in humane education.

**Graduate:** Empirical study or theoretical contribution of not more than 40 pages. A one page abstract should be included. Dissertation projects are eligible if submitted within one year of Ph.D. defense.

**Awards:** Cash awards will be given for the winning entries: Graduate - \$1,000; Undergraduate--\$500; High School--\$250. All winning entries will be published in article length in *PsyETA's* Humane Innovations and Alternatives in Animal Experimentation and announced in *PsyETA* Bulletin. Entries will be evaluated by judges named by *PsyETA's* board of directors. Winning entries become the property of *PsyETA*.

**Dates:** Deadline for entries is 15 Dec 1990.

Awards will be announced and presented at the annual meeting of the American Society for the Prevention of Cruelty to Animals, May 1990. For information or entry submission, contact: Kenneth J. Shapiro, Ph.D., P.O.Box 87, New Gloucester, ME 04260. Phone: 217-926-4817--or--Stephen Zawistowski, Ph.D., ASPCA - Education, 441 East 92nd St., New York NY 10128.

**FIELD ASSISTANTS NEEDED-** 1 April-15 Aug 1990 for study of Mallard behavior and nesting ecology in North Dakota and Minnesota. Duties include making quantitative behavioral observations, nest searching, and capturing, marking, and radio-tracking hens and young. Ability to identify waterfowl, make careful and detailed observations, work well with others, read color markers, and spend long hours in the field using binoculars and scopes is essential. Experience in behavior and waterfowl research is preferred. Salary \$1200-\$1350/mo. Send SF-171 (Personal Qualifications Statement) plus a copy of college transcripts by 22 Dec 1989 to: Personnel, Northern Prairie Wildlife Research Center, P.O.Box 2096, Jamestown ND 58402.

**VOLUNTEER RESEARCH ASSISTANT-** needed from early January to the end of April for assistance with data analysis and dark room work for an ongoing, long-term study of seasonal populations of fin and humpback whales in Massachusetts Bay. Research centers on distribution, habitat use and behavioral observations of photo-identified individuals. Summer intern positions are also available. Interested persons should send a letter of interest, a resumé and two letters of recommendation to Steve Frohock, c/o Atlantic Cetacean Research Center, P.O.Box 1413, Gloucester MA 01930. For further information phone: 508-283-2708. Interviews will be conducted during the first week of January.

**VOLUNTEER ASSISTANT NEEDED-** from 1 Jan until 31 May 1990 for ongoing research on the reproductive lek behavior of the Attwater's Prairie Chicken in Refugio, Texas. Research includes behavioral observations from a blind at dawn (3-5 hrs) and at dusk (2-3 hrs), monitoring nest transects every 2 wks, and analysis of video film data. Arrival to the study area is one hour before dawn. Study area is 30 miles away from main living headquarters. Previous field experience desirable but not necessary. Desirable with driver's license. Free residence provided; most of the time it will be at the Welder Wildlife Refuge (WWR) (comfortable headquarters with cooking and laundry facilities, A/C); other times it will be at the study site in a furnished camp house (cooking and water facilities). A wildlife library is available at the WWR. Research credit hours may be obtained from Texas A&M Univ (if currently registered at this university). There are several other ongoing projects on the WWR which the assistant will have time to get involved in if desired. Send letter of interest, resumé and names, addresses, and phone numbers of at least two references to: Maria I. DiMare, Welder Wildlife Refuge, Sinton TX 78387. Phone: 512-364-5419 or 364-2644.

**FIELD ASSISTANTS NEEDED-** for study of food storing in desert rodents from mid-January to mid-March 1990, in Southern California. Shorter durations also possible. Responsibilities include trapping, marking, radiotelemetry and nocturnal observations. Room and board provided; depending on funds, a stipend may also be available. Send Resumé and two letters of recommendation to Lucy Jacobs, Dept of Anthropology, Univ Pittsburgh, Pittsburgh PA 15260. Phone: 412-648-7522.

**1990 COMPETITION-** for support of field research in biology announced by the The Edmund Niles Huyck Preserve and Biological Research Station. Since 1938 the Preserve, located on the Helderberg Plateau in southwestern Albany Co NY has supported more than 250 scientists working on the ecology, behavior, and evolution of the flora and fauna of the Preserve. During 1989 the preserve funded nine scientists from throughout the US. The Preserve consists of 2000 acres of hardwood-hemlock forest, pine and spruce plantations, old fields, clear-cut areas, lakes, streams and waterfalls. The physical facilities include residences for researchers, a modern research center with wet and dry laboratories, a library, workshop/barn, boats, and weather station.

Support of up to \$3500/Yr is available to those pursuing advanced degrees and those with the Ph.D. Applications for grants are due by 1 Feb 1990 and awards are announced by the end of March. For more information write: Richard L. Wyman, Ph.D., Director and Biologist, E.N. Huyck Preserve and Biological Research Station, P.O.Box 188, Rensselaerville NY 12147. Phone: 518-797-3440.

**POSTDOCTORAL FELLOWSHIP IN AVIAN VOCAL COMMUNICATION-** available beginning Jan 1990 or as soon after as practical. Duties are to help run the research program of the faculty member serving as dept chair for a period of 1 Yr, possibly renewable for at least until 30 June 1991. About half time available for the fellow's own research. Because of the immediate availability of this Fellowship, candidates are asked to register an immediate intent to apply by electronic mail (JHailman@WiscMACC on Bitnet, or JHailman@vms.MACC.Wisc.edu on internet/arpnet) or by phoning the Dept at 608-262-1051 and leaving a message with the receptionist. Specify whether further information on stipend, duties and applying should be sent by electronic or ordinary mail. Jack P. Hallman, Dept Zool, Univ of Wisc, Madison WI 53706.

**VOLUNTEER FIELD ASSISTANTS-** needed in the long-term study of the behavioral ecology of migratory passerines. Spring field season from 31 March through 15 May; fall season from 1 Sept through 1 Nov. Study sites located in southwest (coastal) Louisiana and on Mississippi Gulf coast barrier island(s) [Gulf Islands National Seashore]. Field work includes mist-netting/marking migrants, estimating prey availability, and behavioral observations. Some experience with neotropical passerine migrants desirable. For additional information contact **Dr. Frank R. Moore**, Dept of Biol Sci, Univ Southern Mississippi, Hattiesburg MS 39406-5018. Phone: 601-266-4748/4394.

### **ANNOUNCEMENTS**

**JAPANESE MACAQUE STUDIES-** Several pioneering studies, primarily from Vol. 1 of *Primates*, have been translated from Japanese to English and published in a volume, "*Japanese Monkeys: A Collection of Translations*," edited by Stuart Altmann (published 1965 by the editor). A few copies are still available, at the cost of printing and mailing. To receive one, send U.S. \$4.00 to Stuart Altmann, Univ of Chicago, 940 E. 57th St., Chicago IL 60637.

**TWO NEW SCAW PUBLICATIONS-** The Scientists Center for Animal Welfare (SCAW) has recently published two volumes, based on the proceedings of conferences held on 22 and 23 June 1989: "Canine Research Environment" and "Well-being of Nonhuman Primates in Research."

These conferences provided a forum for discussion of the rules recently presented by the APHIS/USDA to meet the regulations of the amended Animal Welfare Act.

Each volume is \$30 per copy (discounts for volume orders). Order from SCAW, 4805 St. elmo Avenue, Bethesda MD 20814-4805. Phone: Lee Krullsch, 301-654-6390.

**POLLINATION BIOLOGY-** We are working on a "Handbook of Experimental Techniques for Pollination Biology", and are soliciting either references to techniques used for pollination studies (e.g., studies of pollinator behavior), or descriptions of unpublished tricks of the trade. If you have something to contribute, please contact us, David W. Inouye (Mountain Research Station, University of Colorado, 818 County Road 116, Nederland CO 80466; Phone: 303-492-8842; E-mail address: Inouye\_D%CUBLDR@VAXF.COLORADO.EDU), or Carol A. Kearns (Dept Zool, Univ of Maryland, College Park MD 20742; Phone: 303-454-4085; E-mail address: CKS%UMAIL.UMD.EDU).

**CALL FOR PAPERS- Animal Rights and Our Human Relationship to the Biosphere** --A Multidisciplinary Conference on all aspects of this issue--Sponsored by the NEXA Program, San Francisco State Univ, 29 March - 1 April 1990. Submit 5 copies each of 100-200 word abstract and maximum 20 page paper, or panel proposal to: **Prof. Lois Flynn**, Conference Chair, NEXA Program, San Francisco State Univ, 1600 Holloway Ave., San Francisco CA 94132. Phone : 415-338-1301.

**EQUINE BEHAVIOUR STUDY CIRCLE-** Open to New Memberships. Contact: **Jane Lucas**, The Treasurer, Flat 2, 169 Sumatra Road, West Hempstead, London, NW6 1PE, England.

**SWAP-** your equine transportation newsclips, talks, references, video or film citations for sport, art, music, etc. clips. S. E. Cregier, UPEI, Charlottetown, PEI, Canada C1A 4P3.

**AN ABS SYMPOSIUM** (1990 meeting)- "Quantitative Genetic Studies of the Evolution of Behavior," will be organized by **Chris Boake** (Univ of Tennessee) and **Ann Hedrick** (Simon Fraser Univ).

**CALL FOR PAPERS- The Midwest Regional Animal Behavior Society Conference** will be held in Columbus, OH on 27-29 April 1990. This meeting is sponsored by the International Society for Endangered Cats and The Ohio State Univ. The theme of the conference will be "The Role of Animal Behavior Studies in Conservation". Separate paper sessions are planned on captive-oriented and field-oriented animal behavior research relating to conservation and preservation. A general paper session and poster session will be held, and an invited session on Midwest endangered wildlife. Please submit abstracts in any area of animal behavior to: **Gail E. Foreman**, Ph.D., Director of Research, ISEC, 4638 Winterset Dr., Columbus OH 43220. Phone: 1-800-272-CATS or 614-451-4460.

**THE HAWAII INSTITUTE OF MARINE BIOLOGY (HIMB)-** of the University of Hawaii offers a summer program on the **Behavioral Ecology and Ethology of Coral Reef Animals**. 17 June to 11 Aug 1990. HIMB is located on Coconut Island in Kaneohe Bay and is surrounded by a coral reef. Participants may live on Coconut Island. The course is limited to 18 students.

The 8 week course consists of lectures, discussions, workshops, observation and experimental field work, and laboratory studies. Students will participate in one or more research projects. HIMB Instructional staff members are Drs. **Kim Holland**, **George Losey**, and **Ernst Reese**. Visiting scientists will include Drs. **George Barlow**, **Roy Caldwell**, **Larry Dill**, **Gene Helfman**, **Tetsuo Kuwamura**, **Jan Smith**, **Tim Tricas**, and **Robert Warner**. They will lecture and guide research.

Topics to be covered include behavioral ecology, predator prey relationships, foraging and feeding, territoriality, communication, symbiosis, motivation, orientation, including sonic tagging, and statistical analysis of data.

Applicants should be upper division undergraduates who anticipate graduate study in animal behavior and marine biology or beginning graduate students with similar interests. Certification in SCUBA is necessary for applicants wishing to do extensive field work. For further information, including details of course content, academic credit, financial support, and application materials, please write to **Dr. George S. Losey**, Assoc Director, Hawaii Institute of Marine Biology, P.O.Box 1346, Kaneohe HI 96744 U.S.A. Continuing support for the program is provided by the **Edwin W. Pauley Foundation**.

### **MEETINGS**

**FIFTH BIENNIAL T. C. SCHNEIRLA CONFERENCE-** to be held 9-11 Nov 1989 on the University Park Campus of The Pennsylvania State Univ. Contact: **Kathryn E. Hood**, Ph.D., Center for the Study of Child and Adolescent Development, 107 Amy Gardner House, The Pennsylvania State Univ, Univ Park PA 16802. Phone: 814-865-1447.

**NORTHEAST REGIONAL ANIMAL BEHAVIOR MEETINGS-** will be held 10-12 November 1989 at Brown Univ, Providence RI. For more information contact: **Dr. Jonathan Waage**, Box G, Program in Ecology and Evolutionary Biology, Brown Univ, Providence RI 02912

**SCAW DECEMBER 1989 MEETINGS-** Effective Animal Care and Use Committees (7 Dec) and Guidelines for the Well-being of Rodents in Research (8 Dec), Holiday Inn, Research Triangle Park, North Carolina. For more information, contact:

SCAW Conferences, 4805 St. Elmo Avenue, Bethesda MD 20814. Phone: 301-654-6490.

THE 2ND ANNUAL INTERNATIONAL CONFERENCE ON SOCIO-ECONOMICS- 16-18 March 1990 at the George Washington University. Contact: Society for the Advancement of Socio-Economics, 714H Gelman Library, 2130 H Street, NW, Washington DC 20052

SEVENTH BIENNIAL CONFERENCE ON THE ECOLOGICAL AND EVOLUTIONARY ETHOLOGY OF FISHES- 19-23 May 1990 in Flagstaff AZ hosted by the Dept Biol Sci and the Bilbey Research Center, Northern Arizona Univ, approximately 230 km north of Phoenix, the state capitol. Major airlines serve Phoenix, with commuter airlines and buses connecting to Flagstaff. AmTrak train service also to Flagstaff from east or west coasts of USA. Flagstaff rests at 2150 m elevation in Ponderosa pine forest along the base of the San Francisco Peaks (to 3862 m), where C. Hart Merriam developed his Life Zone concept one century ago (1890). Within easy driving distance are habitats ranging from Alpine Tundra to Sonoran Desert, encompassing the Colorado River and the Grand Canyon, Glen Canyon Dam and Lake Powell, and the red rock cliffs of Sedona. Aquatic habitats comprise large rivers and lakes, smaller rivers, permanent and intermittent streams, lakes and ponds, collapsed travertine spring mounds, and ephemeral pools.

Plans for the conference include two symposia (*please contact conference or symposium organizers if you wish to be involved*), contributed paper and poster sessions, discussion meetings and trips to local habitats or historical sites. A final announcement, with a Call for Papers and details of the meeting, will be sent in late Autumn 1989. SYMPOSIA: (Chief Organizer and Tentative Titles)- 1. Behavioral Genetics of Fishes (David Noakes, Dept Zool, Univ of Guelph) 2. Colors, Vision and Underwater Light (Cynthia Annette, Cooperative Fishery Unit and Dept Zool, Univ of Arkansas. Contact: Dr. W. Linn Montgomery, Dept Biol Sci, Northern Arizona Univ, Flagstaff AZ 86011-5640 USA. Phone (602) 523-7505 or 523-2381.

ASSOCIATION FOR BEHAVIOR ANALYSIS- 16th ANNUAL CONVENTION- 27-31 May 1990, Opryland Hotel, Nashville TN. Submissions now being accepted for review! Deadline for receipt is 15 NOV 1989. For information contact: ABA, Western Michigan Univ, 258 Wood Hall, Kalamazoo MI 49008-5052. Phone: 616-387-4495.

THE BEHAVIOR OF MOLLUSCS- 3-7 June 1990 symposium and Film Festival at the 56th Meeting of the American Malacological Union at the Marine Biological Laboratory, Woods Hole MA. Papers are solicited on terrestrial, freshwater and marine molluscs of all classes. Subsections of the symposium include: Behavior related to Larval distribution, Feeding behavior, Social behavior, Reproductive tactics, Defensive behavior, Migrations, Biological rhythms, Ontogeny of behavior, and Integrative neurobiology and behavior. Contact: Roger T. Hanlon, President, American Malacological Union, Marine Biomedical Institute, Univ Texas Medical Branch, Galveston, TX 77550 USA. Phone: (409) 761-2133. FAX: 409 762-9382. BITNET: HANLON@UTMBEACH.

INTERNATIONAL ETHOLOGICAL CONFERENCE- The 22nd Conference will be held 22-29 August 1991 in Kyoto, Japan. For further information write: Conference Secretariat, c/o SIMUL INTERNATIONAL, INC., Kowa Bldg. No. 9, 8-10 Akasaka 1-chome, Minato-ku Tokyo 107, Japan.

TWENTY-SIXTH ANNUAL MEETINGS  
ANIMAL BEHAVIOR SOCIETY  
10-16 JUNE 1990  
STATE UNIVERSITY OF NEW YORK  
AT BINGHAMTON

SUNY Binghamton cordially invites you to attend the 26th National Meeting of the Animal Behavior Society. Our compact, modern campus is set in the wooded hills of the Endless Mountains, on the edge of the Susquehanna River Valley. The campus has several natural areas in it and is bordered to the south by a nature preserve with a beaver pond and trails. We take pride in our ability to dodge multitudinous deer while we drive the local roads at dawn and dusk.

Our complete registration information and forms will be mailed to all members in January and will also appear in the February Newsletter. To assist you in making early plans, we provide here an overview of facilities, general logistics, travel information, and highlights of events, in addition to the accompanying call for papers. If you have questions, call or write Stim Wilcox (607-777-2423) or Anne Clark (607-777-6228), Biol Dept, SUNY Binghamton, NY 13901.

### SETTING AND FACILITIES

June is a pleasant time to visit Binghamton, with days in the 70's (F) and nights in the 50's. We have occasional rains, so we advise bringing an umbrella. All meeting functions will be centralized within a 100-yard walk, including a pleasant dormitory with a cafeteria meal plan and, just across the street, a well-equipped lecture hall building plus adjacent classroom wing and library. Most facilities have handicap access. There is room in the dormitory for all who wish to stay there. For those with cars, there will be free, convenient parking. Athletic facilities are available, including: soccer and intramural fields, running track, and tennis courts, as well as some gymnasium facilities. Local running trail/fartlek/hiking/birding maps will also be available.

Some restaurants and two motels (Holiday Inn SUNY and Howard Johnson) are within a 3/4 mile walking distance. Other motels and restaurants are within a 5-15 minute drive as well as business and shopping areas.

We anticipate the costs for campus housing, food, and registration will be quite reasonable.

### Special Notes:

For those who wish to stay over a Saturday night in order to capitalize on Super Saver air fares, dormitory rooms may be reserved for the Saturday night PRECEDING the meeting, 9 June. Cafeteria meals will not be available for the 9th, but will begin with LUNCH, ON SUNDAY 10 JUNE.

### TRAVEL ARRANGEMENTS

The Binghamton area is conveniently reached by car on the major Highways 17, 81, and 88. The Greyhound Bus terminal is a ten-min drive from campus. Amtrak Railway serves Syracuse, a one and three-fourths hr drive from Binghamton.

### Air Travel

Link Airfield, a 20-min drive from campus, is served by United Airlines (Express), US Air, TWA Airlines (Express), Continental Airlines (Express), and some other commuter

airlines. The OFFICIALLY DESIGNATED AIR CARRIERS for the meeting are United Airlines and US Air. The OFFICIALLY DESIGNATED TRAVEL AGENCY for the Meeting is Rhodes Travel, in Madison, Wisconsin. To obtain the following excellent discount fares, you must make your reservations through Rhodes Travel, by calling toll-free 1-800-356-6008 (in WI 800-362-0377; in Canada 1-608-231-3431). Identify yourself as traveling to the Animal Behavior Society Meeting. The discounts are:

United Airlines offers 40% off unrestricted coach fares and 5% off any and all available discount fares (including Super Saver type fares) to Binghamton, Albany, Syracuse, and Dulles International Airport in Washington, DC;

US Air offers 35% off unrestricted coach fares and 5% off any and all available discount fares (including Super Saver type fares) to Binghamton. Even if you cannot use one of the designated airlines, Rhodes Travel can help you obtain the best rates on other airlines. Make your travel arrangements as soon as possible. The greatest discounts are received by those who book early.

#### Shuttle Service

Beginning at noon on Saturday, 9 June (until 11:00 p.m. 9 June; and from 9:00 a.m. until 11:00 p.m. on Sunday 11 June), we will provide an hourly shuttle service from Link Airfield near Binghamton for a nominal charge, and free shuttle service from the campus to at least the nearer motels and shopping areas. Specific hours for the following days of the meeting will be available after the meeting program is finalized. If you are arriving by bus, let us know when and we will arrange a shuttle for you.

#### Car Rental

Rhodes Travel will also have special convention rates available for car rentals. Cars may be picked up and returned from the Binghamton, Syracuse and Albany airports or in town. Contact Rhodes Travel through the phone numbers cited above for air travel.

#### CHILD CARE

Care and activities for children during the meeting are being planned. At the very least, there will be a list of sitters who can care for children on campus or in their homes (especially appropriate for infants and children up to 3 years). An alternative for 2, 3 and 4 year olds may be temporary enrollment in the Campus PreSchool, which may have a few places available. Finally, a local private school is interested in running an activity program for children up to 10 years, but interest from conferees will determine what can actually be offered. IF YOU WISH TO HAVE CHILD CARE AT THE MEETING, PLEASE CONTACT ANNE CLARK WITH INFORMATION ON NUMBER AND AGES OF CHILDREN AND KIND OF PROGRAM, ASAP, OR BY 30 DECEMBER.

#### PLANNED EVENTS - HIGHLIGHTS

In accordance with tradition the **Sunday Evening Picnic** will be held on 10 June and the **ABS Banquet** on Thursday 14 June. We are pleased to announce our banquet speaker, **Mr. Jim Garry**, professional storyteller of western lore, who will present "*The Folklore of the Grizzly Bear*".

We are also pleased to announce our Keynote Speaker, **Dr. Carl Hopkins** of Cornell University; and our two Fellow

Lecturers, **Dr. Tom Eisner** of Cornell University and **Dr. Patricia DeCoursey** of The University of South Carolina. In addition, **Dr. Fred Stollnitz** will be available for a session to discuss NSF granting procedures, and **Dr. Lee Drickamer**, current editor of *Animal Behaviour*, will be available for a "Meet the Editor" session.

#### AN EVENING OF MUSIC!!

For Monday, 11 June, we are planning a special **Evening of Music**, performed with 100% enthusiasm by some well-known ABS Members, in SUNY Binghamton's Anderson Center for the Arts. The purpose of this evening is first to have fun, second to illustrate that behavioral biologists are more than scientists alone, and third, to further the cause of the ABS Research Grant Program, to which we will donate the proceeds of tax-deductible donations.

#### AN ART IN BIOLOGY EXHIBIT

We plan an exhibit/sale of art by biologists/biological artists, in the Lecture Hall area. **ARTISTS ARE HEREBY INVITED TO SHOW THEIR ART** at an exhibit which will run the duration of the meeting, or for a shorter period at the discretion of the exhibitor. **ANYONE PLANNING TO BRING AN EXHIBIT SHOULD CONTACT ANNE CLARK, BIOL DEPT, SUNY BINGHAMTON, NY 13901. Phone: 607-776228.** Exhibitors offering art for sale will be asked to pay a small exhibition fee.

#### TOURS AND EXCURSIONS

Binghamton itself has many nearby attractions which may be of interest to various meeting participants, such as the Ross Park Zoo, the Kopernick Observatory, a variety of pleasant parks, many golf courses, Waterman Conservation Center, the Cornell Ornithology Laboratory, Cooperstown (Baseball Hall of Fame, James Fenimore Cooper Home, etc.), the Finger Lakes (with several excellent small and larger vineyards), the Catskill Mountains, etc. Binghamton is a major center for gliding, and has an enthusiastic ballooning group. New York City, with all its museums, art, etc. is three hrs away by car. We will provide more detailed information on the above possibilities in the formal invitation mailed in January 1990.

#### Corning Glassworks and Winetasting Trip

We are working on a variety of trips. At present we have one confirmed trip lined up, a tried-and-true, very enjoyable trip to Corning Glassworks in Corning, NY, where Corning's remarkable variety of glassware and glass art is for sale, as well as viewing workers making glass products, followed by a winetasting tour of two vineyards on the shore of nearby Lake Keuka. The trip will include lunch at Corning before heading to the glassworks, and will be back before dinner. At present we envision one trip on Sunday, 10 June, and one on Wednesday, 13 June. Full details on this and other trips plus signup materials will be in the January mailing.

#### Fisherpersons Take Note (especially fly fisherpersons).

The trout streams near Binghamton (e.g., the Delaware, Beaverkill and Willowemoc) have been fishing on world standards in the last few years. There are as many good-sized trout as in many famous western streams--all within 50 minutes to an hour and a half from campus. Some of us (Stim Wilcox in particular) are avid fly fishermen, and can advise appropriately if you wish.

## 1990 ANNUAL MEETING

### ANIMAL BEHAVIOR SOCIETY

10-15 JUNE 1990

### STATE UNIVERSITY OF NEW YORK BINGHAMTON, NEW YORK

**CALL FOR PAPERS:** A Transmittal Form and Abstract Preparation Form for contributed papers are included here. There are two types of contributed papers: 20 min (15 min for presentation and 5 min for discussion) and poster papers. ABS members may present or sponsor only one contributed paper at an Annual Meeting. When a member co-authors with a nonmember who is presenting, the member is sponsoring the paper. A member may also show one film and participate in an invited paper session or symposium in addition to giving or sponsoring one contributed paper. The research reported at an Annual Meeting is expected to comply with all applicable laws concerning animal care and welfare. Transmittal and Abstract Forms, as well as inquiries concerning the program, should be directed to the ABS Program Officer, Lynne D. Houck, Dept of Ecology & Evolution, Univ Chicago, 940 E. 57th St., Chicago IL 60637-1455.

### FINAL DEADLINE FOR RECEIPT OF ABSTRACTS: 15 FEB 1990

**ONLY SUBMISSIONS ON THE PROPER FORM WILL  
BE ACCEPTED. LATE SUBMISSIONS WILL BE  
RETURNED:**

**NOTE:** Registration forms will be included in the February ABS Newsletter, and will also be sent separately to each member. Registration forms should be sent directly to the local host: Dr. Stlm Wilcox, Dept Biol Sciences, SUNY, Binghamton NY 13901.

**POSTER PAPERS** are highly recommended. Poster papers can facilitate more discussion, perusal of data and one-to-one exchanges of ideas. We will continue the evening format for the poster paper sessions. The ABS now sponsors a competition for the **FOUNDERS AWARD FOR POSTER PAPERS**. If you are planning a poster paper submission and wish to be considered for this award, please check the appropriate box on the transmittal form. **ALL** members of ABS presenting poster papers are eligible for the award. Details of the competition and some suggestions for poster paper presentation will be mailed to those in the competition.

**ALLEE AWARD:** The W. C. Allee Award will be presented for the outstanding student paper at the 1990 Annual Meeting. Any independent student research that is largely unpublished at the time of submission for the competition is eligible for this cash and book award, as long as the student has not competed before and has not had the final defense of the doctoral dissertation prior to the preceding ABS Annual Meeting. Each paper must have a single author. To compete, send the Transmittal and Abstract Forms, as well as four copies of a written version of the paper to the Program Officer by **15 FEB 1990**. The written manuscript must not exceed 7 pages of

double-spaced typewritten text; it may include no more than 4 tables and figures and should be completed in the *Animal Behaviour* format. Note that a 1 page update can be submitted between 15 February and 1 June.

**INVITED PAPER SESSIONS:** ABS encourages those who wish to plan a session of invited papers or a symposium. The annual deadline for submission of proposals for invited paper sessions or for symposia is 1 November preceding the next annual meeting. At the earliest opportunity in your planning, please contact the Program Officer for proposal format and additional information.

**ADVANCE WARNING:** At the request of many who have attended the past several ABS Meetings, we will enforce the original rule regarding 20 min contributed papers. Namely, 15 min are for the paper presentation and 5 min are for discussion. **PLEASE PLAN ACCORDINGLY FOR THE 1990 MEETING.**

### ABSTRACT PREPARATION:

1. Abstracts will be photographed just as you submit them; you must follow the suggested format.
2. Abstracts should be typed or printed in a 3" x 7" space, such as that provided on the transmittal form. Letters should not touch the lines. Single space all typing, leaving no top or left margins.
3. If typed, use an electric typewriter with a good ribbon; make neat corrections. Elite type (12 pitch) is preferred. Use black ink for symbols not on your typewriter. Be wary of abstracts printed by dot matrix printers - they usually do not reproduce well.
4. Your Abstract should be organized as follows:
  - a. Title - use CAPITAL LETTERS; check to be certain that Transmittal Form and Abstract titles match; when using a Latin name, please include the common name also; see example below.
  - b. Authors - include departmental and institutional affiliations.
  - c. Specific objectives - include a brief statement unless this is clear from the title.
  - d. Methods - include a brief description as necessary.
  - e. Results - provide a clear, specific summary of findings.
  - f. Conclusions.
  - g. Acknowledgments or References - as desired.
5. On page 13, we provide an example of a title and by line. **DO NOT** type your Abstract on page 13! Newsprint provides an inappropriate photographic background. Use plain bond paper.

SEND **TWO** COPIES OF THE ABSTRACT, ALONG WITH ONE COPY OF THE TRANSMITTAL FORM, TO THE PROGRAM OFFICER.

DEADLINE FOR **ALL** ABSTRACTS IS **15 FEBRUARY 1990**. NO EXCEPTIONS.

Example of title lines (please follow this format):

DISPERSAL PATTERNS IN THE DWARF MONGOOSE (*Helogale parvula*)  
Jon P. Rood, Smithsonian Conservation and Research Center, Front Royal, Virginia

By submission of this abstract to ABS I declare that the research reported herein was conducted in compliance with the ABS Animal Care Guidelines and all laws applicable to my work.

Signed \_\_\_\_\_



Please identify your paper according to animal group and principal subject by circling the appropriate categories. These are used by the Program Officer to assist in arranging the program. Note that presentations will be assigned to these categories in the order in which the transmittal forms are received. Early submission of the form is strongly encouraged.

**ANIMAL GROUP:**

Humans	Carnivores	Crustaceans	Arachnids
Ungulates	Rodents	Amphibia	Insects
Other Mammals	Marine Mammals	Reptiles	Other Invertebrates
Non-human Primates	Birds	Fishes	Molluscs

**SUBJECT:**

Applied Ethology	Genetics	Social Behavior
Behavioral Ecology	Learning	Agonistic
Biological Rhythms	Methodology	Altruism/Kinship
Communication	Natural History	Courtship/Mating
Development	Orientation/Navigation	Dominance
Physiology/Neuroethology	Theory	Mate choice
Predator/Prey	Self Maintenance	Intrasexual Competition
Play Behavior	Parent-offspring Relations	Territoriality
Human Ethology		

None of the above categories seems appropriate. I would best categorize my paper as dealing with

\_\_\_\_\_

I would prefer to have my presentation in a session arranged by:

Subject \_\_\_\_\_ Taxonomic Group \_\_\_\_\_

ANY SPECIAL REQUESTS THAT THE PROGRAM OFFICER WILL TRY TO ACCOMMODATE? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

This presentation is based on research sponsored by an ABS Research Grant:

Yes \_\_\_\_\_ No \_\_\_\_\_

APPLICATION FOR MEMBERSHIP: ANIMAL BEHAVIOR SOCIETY

Name in full \_\_\_\_\_ Degrees \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_ Phone \_\_\_\_\_

Position \_\_\_\_\_ Institution \_\_\_\_\_

\_\_\_\_\_ Member- \$32 (U.S.) Receive Animal Behaviour and Newsletter

\_\_\_\_\_ Student Member- \$18 Receive Animal Behaviour and Newsletter

\_\_\_\_\_ Spouse Member- \$14 Receive Newsletter

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 # \_\_\_\_\_

Card Holder's Signature \_\_\_\_\_ ) to:

**SEND THE APPLICATION TO:**

Robert Matthews, ABS Treasurer, Dept of Entomology, Univ of Georgia, Athens, GA 30602

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David Chiszar  
Dept of Psychology  
Campus Box 345  
University of Colorado  
Boulder, Colorado 80303

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