



INTERNATIONAL SOCIETY FOR BEHAVIORAL ECOLOGY

ISBE NEWSLETTER

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FROM THE PRESIDENT

I am very pleased to announce the establishment of the Frank A. Pitelka Award for Excellence in Research. This award has been made possible by an endowment fund established by Dr. Pitelka's past students in honor of his research achievements and in appreciation of his generous mentorship.

This award will be made at the biennial meetings of the ISBE, beginning with the Canberra meeting later this year, to the senior or sole author of a significant paper published in Behavioral Ecology during the previous two years. Eligibility of authors (sole or single authors) will be limited to predoctoral candidates and people who have received their doctorate within five years of the date of publication of their paper. Recipients of the award will be selected by the ISBE executive committee.

On behalf of the Society, I wish to express gratitude and appreciation to the students of Frank Pitelka for their generosity in making this award, which will acknowledge research excellence, encourage young scientists, and support our journal. More details about this award, and a brief biography of Frank Pitelka, follow on page 6 of this Newsletter.

Items requiring immediate attention also follow in this newsletter. Despite problems in getting information circulars circulated, plans for the 1996 meeting in Canberra are developing on schedule. Please contact Andrew Cockburn at the address indicated herein if you are still experiencing problems in getting information about the meeting. Younger delegates to the meeting from the U.S. may be eligible for travel support, but must apply quickly. Please take the time to vote in the Society elections shortly after you receive this newsletter, so that your ballot will be received in time to be counted. See page 9 of this Newsletter.

This is my final newsletter contribution as current President of the ISBE. At the Canberra meeting, Tim Birkhead will take over as President. With growing membership in the Society and an increasing submission rate to Behavioral Ecology, the future looks bright. My thanks to you all for your continued support of both the journal and the meetings.

This will also be the last issue as newsletter editor for Ron Ydenberg. Ron has served as editor for four years. Many thanks, Ron, for a job well done with grace, good humor, and ample patience! Beginning with the next issue, Bart Kempanaers will take over as editor. My thanks to Bart for assuming this responsibility.

See you in Canberra!!!!

Best wishes,

Nancy Burley

FROM THE (EX)NEWSLETTER EDITOR ...

This is the last issue of the ISBE Newsletter I'll be producing, and I'd like the opportunity to thank publicly those who have helped over the past four years. Pete Hoffman of Oxford University Press assisted in co-ordinating production so that the Newsletter could be mailed with the journal, and deserves special thanks. Past-President Larry Dill and current President Nancy Burley provided the commentaries on page one of each issue, and I have enjoyed liasing with them. Diana Elm and Anna Day not only did the typing but looked after the layout, and most of the credit for the Newsletter's attractive appearance is due to their efforts. Thank you all.

The new Newsletter Editor will be Bart Kempnaers. His address is given below. His first issue (volume 8/2) will be mailed with the last issue of this year's journal (about November - right Pete?), following the Canberra conference. I wish him well in this undertaking, and trust that he will have everyone's co-operation in meeting those deadlines.

My career in newsletter production began many years ago when, with my brother, as an eleven year old I produced and sold (five cents a copy) a small neighbourhood paper, of approximately the size of the ISBE Newsletter, but with perhaps 40 instead of 1400 copies. Computers, Pagemaker and Docutech have replaced the Gestetner, nail polish and stencils, but the thrill of the deadline is - most assuredly - the same experience. Turning the Gestetner by hand and seeing the copies stack up was always very satisfying, and I miss also that machine's comfortable 'ka-klick-ka ka-klick-ka'. In spite of all the newfangled technology, however, this job has brought for me some of those same satisfactions, and it has been a pleasure and privilege to serve the society in this way.

Ron Ydenberg

The new Newsletter Editor is:

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Members of the Council are asked to check this listing and provide any corrections or additional information to the Newsletter editor.

SOCIETY NEWS

VITH INTERNATIONAL BEHAVIOURAL ECOLOGY CONGRESS Canberra, Sept. 29 - Oct. 4, 1996

Venu

The Sixth International Behavioral Ecology Congress will be held at the Manning Clark Centre, Australian National University from 29 September to 4 October 1996. An evening reception will be held on 28 September.

Conference Tours

A number of pre- and post-conference tours are planned. These will be run by expert naturalists to some of Australia's most magnificent natural attractions including:

- the 'Top End', including Kakadu National Park
- the tropical rainforest of north Queensland
- Australia's Red Centre
- wilderness areas of southeastern Australia
- outback Australia

Scientific Content

For further information on scientific organization please contact Andrew Cockburn, Botany and Zoology, Australian National University, ACT, 0200, Australia (e-mail: isbe6@anu.edu.au).

Second Circular

A problem with overseas mailing had (besides giving Andrew Cockburn a serious stress attack) resulted in some members not receiving the second conference circular. If you have still not received the conference circular, contact Andrew Cockburn immediately.

Conference Information

Dates: Conference begins evening of Sunday 29 September 1996 and the last talk is 5:00pm Friday 4 October 1996. Tours are organized for 24-26 September, and 5-9 October (or thereabouts).

Costs (in Australian dollars)

Ordinary Registration: \$385
 Student Registration: \$200
 Commercial Registration: \$500
 All social events: \$110
 Accommodation in university residences: \$46 per day
 (bed/breakfast)

Timetable

The deadline for receipt of abstracts had passed, but poster only abstracts will be accepted until June 30, 1996.

Submission of Abstracts

Our preferred mode of submission of Abstracts is by electronic mail, either as an attachment to an e-mail message formatted in Microsoft Word, or as an e-mail message. The conference e-mail address is: isbe6@anu.edu.au

If you have no e-mail facilities post your Abstract to:

6th International Behavioral Ecology Congress
 ACTS
 GPO Box 2200
 Braddon ACT 2601

Please adopt the following formatting protocol:

First line: Subject Category (see list below for options)
 Second line: Title
 Third line: Authors
 Fourth line: Institution (give only the address of the person who will present the talk or poster)
 Fifth and subsequent lines: Abstract (limit 200 words)
 Second last line: Whether you wish to contribute this paper as a poster, or whether you would also be interested in presenting a paper.
 Final line: Language - for any problems with conversion of special characters e.g. it is useful to know whether Danish/Norwegian characters are to be used rather than Swedish characters.

A sample Abstract would look like this:

COMMUNICATION

The advantages of poster presentations at conferences Organizer, C. and Presenter, P.
 Evolutionary Ecology Group, Australian National University, Canberra ACT 0200 Australia
 The amount of information communicated in oral and poster presentations was compared by monitoring brain and heart activity of jaded conference delegates. Oral presentations were attended by an average of 146 delegates, and attracted an average of 2 questions. Approximately 32% of all the receivers slept one or more times during talks, and 46% suffered some form of oxygen deprivation. By contrast, poster presentations attracted 584 delegates and between 200 and 400 questions. Rare cases of sleep and blood problems were associated with excessive blood alcohol levels among maniacally depressed speakers disappointed at the inadequate audience attending their talk.

POSTER PAPER ONLY

Categories for talks and posters:

While this is not meant to be a final list, selecting which of the following issues is the most appropriate heading for your contribution will be of considerable use to the organizers in designing the program.

1. Mating systems
2. Territoriality
3. Cooperation and kinship
4. Grouping/flocking
5. Sexual selection/sex
6. Parental behaviour
7. Sex allocation
8. Dispersal
9. Exploitation /parasitism
10. Predator/prey
11. Mutualism
12. Competition
13. Foraging/optimization
14. Behavioral genetics
15. Communication
16. Learning
17. Conservation

Spoken papers

There will be four parallel sessions of spoken papers. Each paper will be allowed 15 minutes plus 3 minutes for questions and there will be a 2 minute period for movement between lecture theatres (note that all lecture theatres are physically adjacent). Overhead slide projection facilities will be available in all sessions, and with advance notice we may be able to arrange video presentations. Spoken papers will be chosen on the basis of the submitted Abstract.

Poster papers

Posters will be displayed for the duration of the conference in the same venue. Each poster will be assigned to a specific session when the presenter will be expected to attend the poster. Poster boards will be 1000mm wide * 2100mm high.

FROM THE CONFERENCE ORGANIZER...

After the initial problems with the mail-out, organisation of the Sixth International Behavioral Ecology Congress in Canberra is going well, with a full program of 196 spoken papers, 8 plenary talks, and approximately 250 additional poster contributions to date. We will continue to accept poster contributions until 30 June 1996. A lively social program is being developed, with the possibility of honing your skills against the crack Australian soccer team, learning Australian bush dancing, and even the chance of some karaoke. Further information is available from isbe6@anu.edu.au

See you in Canberra!

Andrew Cockburn

FROM THE ISBE AMERICAN COMMITTEE

The ISBE American Committee is applying for a grant from NSF for partial support of travel for younger scientists to attend the VITH ISBE meeting. If successful, funds will be used to support younger US scientists, expanded to include those who received their Ph.D. between 1989 and 1995 or who will complete their Ph.D. in 1996. To apply for a travel award, submit (1) 3 copies of a 1-2 page curriculum vitae, (2) 3 copies of the abstract you plan on submitting for consideration to the ISBE program, (3) a proposed budget for the meeting, including additional sources of travel support available to the applicant, and (4) 3 copies of two letters of recommendation sent separately by the recommendors, to Dr. Walter D. Koenig, Hastings Reservations, 38601 E. Carmel Valley Road, Carmel Valley, CA 93924. Application deadline is 15 May 1996. For those who have not completed their Ph.D., please include a letter from the major professor assuring that the degree will be completed during 1996. We hope to notify successful applicants by 15 June 1996. For additional information, please contact Walt Koenig at the above address (phone 408-659-5981; e-mail: wicker@uclink.berkeley.edu).

DONATED SUBSCRIPTION PROGRAMME

Please help colleagues in need. Every donation will help increase scientific contacts across the world. In a time when nationalism is again raising its ugly head, this is more important than ever. For details, see the newest issues of our journal Behavioral Ecology.

SPOUSAL MEMBERSHIP

For \$5 per year spouses of full members can become members of ISBE. Spousal members receive the annual newsletter and information concerning biannual meetings, but do not receive a subscription to the journal. Please see information in any issue of Behavioral Ecology.

ISBE ARCHIVES

The ISBE. Archives are missing minutes, notes, correspondence, financial statements, etc. from the early years of 1986-1988. Please could you look through your files to see if you have any of the relevant material. A detailed list of what is presently catalogued is available from the address below.

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PITELKA AWARD

The students of Frank Pitelka have established the Frank A. Pitelka Award for Excellence in Research, to be administered through the ISBE. Beginning in 1996, this award and its associated cash prize will be given out at the biennial meetings of the ISBE to the senior or sole author of a significant paper published in Behavioral Ecology during the previous two years.

Eligibility of sole or first authors will be limited to predoctoral candidates or persons that have received their doctorate within five years of the date of the publication of their paper. In the case of multi-authored papers, the award will go to all authors, but the cash prize will go to the senior author only. All authors that meet the eligibility criteria, and whose papers present the results of original empirical or theoretical research, will be considered for this award. Review papers will not be eligible.

The ISBE executive committee will serve as the committee to select awardees, with the past-president acting as chair of the committee. For the 1996 award, papers published in Behavioral Ecology in 1994 and 1995 will be considered. It is not necessary to apply for this award,

as all papers whose first authors qualify will be considered. One award of U.S. \$150 will be made at the Canberra meeting. In future years, as the endowment grows, the size and number of awards made will increase.

BIOGRAPHY OF FRANK ALOIS PITELKA

Frank was born in 1916 and grew up in Chicago area. An early interest in birds and avian ecology led him to attend the University of Illinois at Champaign/Urbana, where he came under the influence of Charles Kendeigh. After graduating in 1939 he went on to the University of California at Berkeley as a student of Alden Miller's in the Museum of Vertebrate Zoology. His Ph.D. thesis, published as a University of California Publication in Zoology, was a study of the systematics of *Aphelocoma* jays. However, questions about the behaviour and ecology of members of this genus, which include the Western and Florida Scrub Jays and the Mexican Jay, were raised during the course of this work. Some of these, especially the evolution of social behaviour and cooperative breeding, have shaped the direction of his career ever since. Frank received his Ph.D. in 1946 and then remained at Berkeley as a faculty member in the Department of Zoology and Museum of Vertebrate Zoology. During Frank's 40 years as a faculty member at Berkeley, he twice chaired the Department of Zoology and he received several University honors, including undergraduate teaching awards.

In 1951 Frank initiated what would become a 30-year research program in the Arctic at Barrow, Alaska. He and his students conducted basic research on the ecology of lemmings and on the ecology and behaviour in Calidridine sandpipers. This research led to his classic paper (with Richard Holmes and Steve MacLean) on "The ecology and evolution of social organization in arctic sandpipers" published in the *American Zoologist* (14: 185-204 [1974]). Frank continues to show partiality to the arctic and to the problems associated with the evolution of mating systems.

Frank has served the professional community in a variety of ways, from editing or serving on the editing boards of several journals (*Ecology*; *Systematic Zoology*; *The Condor*; *Current Ornithology*) to serving on the NSF panel for Polar Programs and the Board of Di-

rectors of the Point Reyes Bird Observatory. He has also garnered numerous professional honors, including the Mercer Award and Eminent Ecologist Award of the Ecological Society of America and the Brewster Medal from the American Ornithologists' Union. However, his career is perhaps most noteworthy for the remarkable array of students in ecology and behavioral ecology that he has mentored and frequently collaborated with over the years, including 26 Ph.D. and numerous postdoctoral students. Of these, those still active in the fields of ecology and behaviour include George Batzli, Donald Beaver, Jerram Brown, Guy Cameron, Howard Cogswell, Peters Connors, Tom Custer, Janis L. Dickinson, Arnthor Gardarsson, Russell Greenberg, Susan Hannon, Scott Hatch, Richard Holmes, Richard Johnston, Walt Koenig, Charles Krebs, Steve McLean, William Maher, Ron Mumme, Pete Myers, Gordon Orians, Fernando Ortiz-Crespo, Steve Pruett-Jones, J. Van Remsen, Richard Root, Greg Ruiz, Robert Selander, Paul Sherman, Kim Smith, Tom Smith, William Thompson, Nico Verbeek, Jeff Walters, Steve West, Pan Williams, David Winkler, and Jerry Wolff.

Frank retired in 1986 but continues to be professionally active by reviewing papers, attending meetings, and collaborating with a variety of colleagues.

Students and Postdoctoral Research Associates of Frank Pitelka:

Ph.D Students:

Paul H. Baldwin, George O. Batzli, Donald L. Beaver, Jerram L. Brown, Henry E. Childs, Howard L. Cogswell, Thomas W. Custer, R. Glenn Ford, Arnthor Gardarsson, Russell S. Greenberg, Scott A. Hatch, S. B. Haven, Richard T. Holmes, Walter D. Koenig, Larry R. Lawlor, Stephen F. MacLean, William J. Maher, Michael P. Marsh, David A. Mullen, Ronald L. Mumme, J. Peterson Myers, Gordon H. Orians, Fernando I. Ortiz-Crespo, Oscar H. Paris, Stephen Pruett-Jones, Donald R. Roberts, Richard B. Root, Gregory M. Ruiz, Thomas B. Smith, Susan H. Thomas, William L. Thompson, J. Van Remsen, Nicolaas A. M. Verbeek, Stephen D. West, Pamela L. Williams, David W. Winkler, Jerry Wolff

Postdoctoral Research Associates:

Tom J. Cade, Guy N. Cameron, Peter G. Connors, Janis L. Dickinson, Susan J. Hannon, Charles J. Kerbs, Paul W. Sherman, Jeffrey R. Walters

CONFERENCES

ECOLOGICAL AND EVOLUTIONARY ETHOLOGY OF FISHES

Meeting to be held at the University of New Mexico, Albuquerque, NM, May 25-30, 1996. Symposia, paper and poster sessions are planned. Organizers of the symposia should contact the local conference organizer, Astrid Kodric-Brown, Department of Biology, University of New Mexico, Albuquerque, NM 87131 Tel: (505) 277-9336, Fax: (505) 277-0304, e-mail: kodric@unm.edu.

INDIVIDUAL BEHAVIOUR AND POPULATION PROCESSES ASSOCIATION FOR THE STUDY OF ANIMAL BEHAVIOUR

Norwich, UK, July 23-26, 1996. The summer annual meeting of ASAB will focus on the relationship between animal behaviour and population ecology. This theme will include the role of individual decisions in foraging, predator avoidance, territoriality, and breeding behaviour in determining spatial patterns of habitat use and temporal changes in populations. It is hoped that discussions of both theoretical and empirical research will contribute toward a much-needed synthesis between animal behaviour and population biology, with implications for management and conservation.

In addition to presentations from invited speakers, we will welcome submissions of abstracts for contributed posters and oral presentations. Please direct requests for additional information to:

Drs. Bill Sutherland and John Reynolds

School of Biological Sciences

University of East Anglia

Norwich NR4 7TJ UK

Tel: 01603-592266, Fax: 01603-592250

e-mail: wsutherland@uea.ac.uk or reynolds@uea.ac.uk

PARASITES AND ECOLOGY OF MARINE AND COASTAL BIRDS

Stykkisholmur, Iceland, June 15-18, 1996

The symposium is arranged on behalf of the Scandinavian Society for Parasitology (SSP) with financial support from the Nordic Academy for Advanced Studies (NorFA).

The purpose of the symposium is to bring together parasitologists, ecologists and ornithologists for exchanging ideas and information and to develop cooperative projects in marine and coastal bird ecology that take parasitism into consideration.

Invited speakers will give lectures on pathogenity and ecological impacts of parasites and ecologists will deal with ecological aspects of coastal and marine birds.

Participants are encouraged to give oral presentations or present posters.

The plenary lectures, and abstracts of other talks and posters, will published in the Bulletin of the SSP.

Karl Skirnisson
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POSITIONS

VOLUNTEERS - Approximately 30 volunteer positions are open in 1996 at the American Museum of Natural History's Southwestern Research Station in Portal, Arizona. 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 twenty-four hours per week of routine chores, with the remaining time available for research activities.

The program is open to both undergraduate 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.

Volunteers are needed between March 15 and November 1. Appointments are for part of this period, with a minimum appointment of six weeks.

Applicants for spring positions (March-May) should submit applications by February 15, summer volunteers (June-August) by April 1, and fall volunteers (September-November) may apply any time.

For applications write:
Dr. Wade C. Sherbrooke, Director
Southwestern Research Station
American Museum of Natural History
Portal, AZ 85632 USA
Tel: (502) 558-2396

SOCIETY EXECUTIVE NOMINATIONS

The following nominations for positions on the Society's executive have been received. The last page of this Newsletter is a ballot which can be folded and returned to Tim Birkhead, who as the current President-elect is responsible for counting the votes and reporting the results. He can be contacted at the numbers given on page 2.

for President-elect

The president-elect will be installed in this capacity at the Canberra meeting (October 1996) and will become the Society's President at the Monterey meeting (1998) for a two year period.

President-Elect:

Jan Ekman

1970 B.Sc.; 1979 Ph.D. (Zoology); 1979-1987 Postdoctoral researcher, all at the University of Gotheburg; 1987-1994 assistant professor University of Stockholm, 1994 to present professor (chair of Population biology) University of Uppsala. My main interests are social behaviour and foraging. I have focused on the nature of interactions in kin and non-kin systems, and on strategies of monitoring survival through body mass control and management of cached food.

Stephen Emlen

Stephen T. Emlen is the Jacob Gould Schurman Professor of Behavioral Ecology in the Section of Neurobiology and Behavior at Cornell University. He did his undergraduate work at Swarthmore College, obtained his doctorate at the University of Michigan, and joined the Cornell faculty shortly thereafter. He is a Fellow of numerous societies, a recipient of the Brewster Medal from the American Ornithologists' Union, and has been both a John Simon Guggenheim Fellow (in Kenya) and a William Fulbright Scholar (in Panama). His research interests include: (1) the orientation capabilities of migratory birds, (2) the rules for encodement of information in bird song, (3) the role of ecological factors in

shaping animal societies, (4) the decision rules that govern cooperation and conflict within such societies, (5) the formation, stability, and social dynamics of families among animals, and (6) the understanding of human behavior within an evolutionary framework.

for Secretary

The new Secretary will be installed at the Canberra meeting (October 1996) and serve for a two year period.

Patricia Parker

Ph.D. 1984 University of North Carolina; currently an Associate Professor at The Ohio State University. Research interests have focused on the evolution of cooperative behavior, using molecular markers to examine relatedness and reproduction of group members in a variety of cooperatively breeding birds. Current research explores the role played in conservation of natural populations by our understanding of their behavioral dynamics; examples include study of the relationship between mating systems and effective population size.

Scott Pitnick

Scott Pitnick received a B.Sc. from Cornell University in 1986 and a Ph.D. from Arizona State University in 1992. Professional interests include evolution of reproductive and life history traits in insects. Research focus is on behavioral, quantitative genetic, and phylogenetic aspects of sperm length evolution, using species exhibiting sperm gigantism.

for Treasurer

The new Treasurer will be installed at the Canberra meeting (October 1996) and serve for a two year period.

H. Carl Gerhardt

Ph.D., 1970, University of Texas at Austin; Cornell postdoc.; Professor, University of Missouri (Columbia) since 1981. Service: Editorial boards of Animal Behaviour, Bioacoustics, Herpetologica; Secretary, International Society for Neuroethology, Honors; Career De-

velopment Awards from NIH. Resource interests in animal communication, mate choice, speciation and bioacoustics.

Stephen Pruett-Jones

Ph.D., Zoology, 1985, University of California, Berkeley. Present position:

Associate Professor, Department of Ecology and Evolution, University of Chicago. My research interests lie in evolutionary biology and animal behavior. I am equally interested in field observations and experiments, laboratory investigations, and theoretical analyses. My research has focussed on birds and has included studies in: 1) sexual selection; 2) the evolution of mating systems; 3) spatial patterning; 4) theoretical aspects of decision-making; 5) host-parasite coevolution; and 6) population biology. This work has been conducted in a variety of regions, including arctic Alaska, the Rocky Mountains, Illinois, Panama, Papua New Guinea, and Australia.

Councillors

Two new councillors will be installed at the Canberra meeting, each of whom will serve a four year term.

Anders Berglund

Ph. D. 1983, Dept. of Zoology, Uppsala University. Present position: Associate professor, Dept. of Zoology, Uppsala University.

Research interests: My main interest is how and why secondary sexual characters and sex roles evolve. A "traditional sex role" implies that males compete for females, whereas in sex role reversed species females are more competitive. Males would here constitute a reproductive bottleneck, something also found in the role-reversed pipefish species I study. Female pipefish possess a colour ornament aiding them in female-female competition and in male mate choice. The ornament seems nutritionally inexpensive, and social and predatory costs of it are currently investigated.

Janis Dickinson

Ph.D. 1987, Cornell University, Ithaca, New York, U.S.A.

Janis Dickinson is currently an Assistant Research Zoologist in the Museum of Vertebrate Zoology at the University of California, Berkeley. Her primary research interests include evolutionary conflict of interest between the sexes over multi-male mating by females and the fitness consequences of helping behavior. She has conducted experimental studies of paternity assurance mechanisms in leaf beetles, checkerspot butterflies, and western bluebirds. Her current work involves using genetic fingerprinting in conjunction with long-term demographic data and field experiments to analyze the fitness consequences of variable reproductive behaviors of western bluebirds, including extra-pair mating, helping-at-the-nest, and adoptive feeding of young by males at nests of widowed females.

Marion Petrie

Marion Petrie was awarded a Ph.D. from the University of East Anglia, UK in 1982. She is currently a Senior Lecturer in the Evolution and Behaviour Research Group, Department of Psychology, University of Newcastle, UK. She is interested in the following research areas: sexual selection, the evolution of mating systems and brood parasitism as a model system for studying coevolution.

Manolo Soler

Ph.D. University of Granada, 1984. Present position: Associate professor (Professor Titular) since 1987. Research interest: Coevolution and brood parasitism, sexual selection and mating system.

BALLOT FOR ELECTION OF OFFICERS OF ISBE

President-Elect (vote for one):

- Jan Ekman
- Steve Emlen

Treasurer (vote for one):

- Carl Gerhardt
- Steve Pruett-Jones

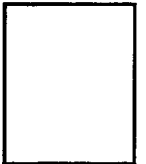
Secretary (vote for one):

- Patty Parker
- Scott Pitnick

Councillors (vote for two):

- Anders Berglund
- Janis Dickinson
- Marion Petrie
- Manolo Soler

Please fold up the ballot, and mail to the President-Elect (address on back page) by June 15, 1996.



Professor Tim Birkhead
President-Elect, ISBE
Zoology Department
The University of Sheffield
Sheffield, England
S10 2TN

ISBE BALLOT