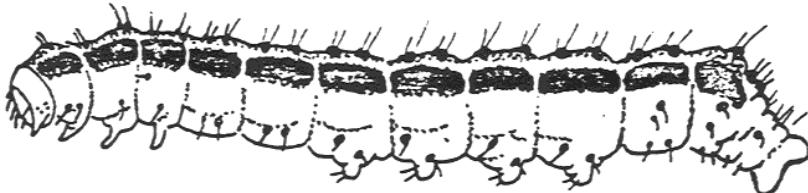


FRASS

INSECT REARING GROUP NEWSLETTER



Concensus opinion was that our organization should be called "Insect Rearing Group". Of course the title of our newsletter shall remain "FRASS". We received a total of 178 responses and the top 4 were as follows:

Insect Rearing Group - 29 votes
Insect Rearing Society - 24 votes
Arthropod Rearing Society - 23 votes
Arthropod Rearing Group - 17 votes

Many interesting comments were noted as reasons for your choices. Several of you pointed out that the word "Society" denoted a formal organized body with a charter, structure, etc. Others were concerned by the term "Colonization" because of its use in population establishment as opposed to continuous culture in the insectary. Possible acronyms became apparent, e.g., IRS and ARS, and were objectionable to some.

I personally agree with those of you who preferred that "Arthropod" be included in our name. Technically this would have been more correct.

Arthropod Culture List

Over 300 entries were received in response to our request for information on arthropods under culture. These responses came from scientists throughout the world.

Since making the initial request, Bill Dickerson who is coordinating development of the list, made the same request in the current IOBC newsletter. Thus, we are cooperating with IOBC-WHRS. This should assist us in constructing a list of arthropods in culture that will be more complete and highly useful.

We have not had time to compile and summarize all of the entries. Thus, I cannot give you the results. Further, we believe that there may be more possible entries, particularly those of you recently initiating cultures. I have attached another form (Appendix I) to this newsletter for this purpose. We ask that you complete and return the information sheets as soon as possible. We also ask that you forward a copy of the information blank to anyone rearing arthropods whose name is not on the mailing list (included in this issue of FRASS).

The Arthropod Culture List is scheduled for completion and distribution in 1979. We have indications that either the Entomological Society of America or the U.S. Department of Agriculture would help support printing costs for the List. There is also some indication that the National Academy of Sciences may print the List.

Participant Mailing List

One-hundred-seventy-eight of you returned the form asking you if you wished to continue receiving the FRASS newsletter. However, we had over 500 names on our mailing list. I have attached the mailing list deleting only those who either stated they no longer wished to continue receiving the newsletter, or the newsletter was returned because of unknown addresses (Appendix II). I have enclosed another form (Appendix III) in newsletters to those of you who failed to return the previous form. Failure to return this form will result in automatic deletion from the mailing list.

National Meeting Entomological Society America

The annual ESA meeting will be held in Houston, Texas, November 26 to November 30 at the Sheraton Hotel. As during the previous conferences, time has been allotted us for an evening informal conference on insect rearing. Please consult a program for the time and place. I hope each of you can attend; a large room was requested.

The FRASS Coordinator for 1979, Dave Hoffman, Columbia, Missouri will be introduced during the meeting and you can make suggestions for 1979 FRASS issues. Raye Moore can give you an update on the proposed insect rearing conference in Puerto Rico (discussed below) and Bill Dickerson can give you a progress report on development of our Arthropod Culture List. We can also cover other announcements you may have. Perhaps you might want to present a unique rearing technique; we will have a 2 x 2 slide projector available for this purpose.

Conference on Insect Nutrition and Laboratory Rearing of Insects

The FRASS newsletter of March 8, 1978, contained comments by Tom O'Dell on the interest and need for a workshop to discuss "quality control in insectary-produced insects". This resulted in a meeting on April 27 at Beltsville, Maryland to discuss the need for such a meeting followed by another meeting at the Gypsy Moth Rearing Facility at Otis Air Force Base in Massachusetts to develop subject areas for a meeting.

The meetings were convened by Dr. Raye Moore, U.S. Department of Agriculture Technical Advisor for Insect Rearing and attended by the following scientists: Robert Bell, Otis AFB, MA; Marion Brooks, St. Paul, MN; Bill Dickerson, Raleigh, NC; David Hoffman, Columbia, MO; Ed King, Stoneville, MS; Waldemar Klassen, Beltsville, MD; Norman Leppla, Gainesville, FL; Tom O'Dell, Hamden, CT; and James Wright, Mississippi State, MS. A decision was made to develop a conference.

The subject conference was tentatively set for 2 days, February 13 and 14, in San Juan, Puerto Rico. Five subject areas and suggested topics in each area were discussed and are listed below along with individuals who will be responsible for organizing each section:

- I. Colony establishment and maintenance of desired characteristics.
 - J. E. Wright
 - Characterization of field populations
 - Behavioral characteristics
 - Geographical distribution
 - Genetic heterogeneity
 - Sample size and composition
 - Rearing environment
 - Selection techniques
 - Isolation, infusion, hybridization
- II. Diets for insects. Bob Bell
 - Supply acquisition
 - Quality control - nutritive value
 - Processing
 - Containerization
 - Physical properties
 - Pathogen control
- III. Production, utilization, and quality testing of insects.
 - Ed King, Tom O'Dell
 - Examples of specific programs in various orders of insects to emphasize the use of the insect, stage used and quantity reared in production and utilization.
 - Quality testing of insects to establish standards, develop, and select tests for evaluation of programs and evaluation of insects.
- IV. Engineering. Edsel Harrell
 - Facilities - sophistication environment and quarantine
 - Automation
 - Materials handling
 - Human health
- V. Management. Norman Leppla
 - Impact of insect rearing
 - Cost-effectiveness
 - Time-motion studies
 - Insectary management concept
 - Personnel training and duty assignment
 - Literature and curriculum

Each section leader is to develop a program of approximately 2 1/2 hours, identifying individuals who may participate and their subject. Contributions will include scientists from the U.S. Dept. Agric., universities and industry including some international participants. The proceedings will be published in book form. The conference will be further defined at a meeting in Stoneville, MS December 4-6, 1978.

Insect Rearing Materials List

The materials submitted by you are listed in Appendix IV. I made no attempt to check on the prices, but differences in cost for the same product could be due to quantity purchased or the degree of refining. This list can be valuable and it will be continued in subsequent newsletters.

Requests for Information and Announcements

Louise Vet, Dept. of Ecology, Zoologisch Laboratorium, Kaiserstraat 63, 2300 RA Leiden, The Netherlands, wishes information about insects capable of parasitizing the whitefly Trialeurodes vaporariorum under temperature conditions lower than 24°C. The chalcid wasp Encarsia formosa Gahan is being used presently, but glasshouse temperatures are being lowered to conserve energy and Encarsia becomes less efficient at lower temperatures.

Glen G. Hartley, Bioenvironmental Insect Control Laboratory, P.O. Box 225, Gainesville, MS 38776 would like information on distributors of the Cell-Pak trays used to hold 1 oz. plastic rearing cups.

Dennis Barraco, Dept. of Biophysics, Michigan State University, E. Lansing, MI 48824 would like information regarding the availability of the cockroach Periplaneta americana. The insects are needed for research purposes.

Dr. Pritam Singh, Insect Rearing and Nutrition, Entomology Division, DSIR, Private Bag, Auckland, is on sabbatical leave until June 1979 with the Division of Entomology and Parasitology, University of California, Berkeley, California 94720. Correspondence with him should be directed to his California address.

New Publications

- (1) Leppla, N. C. and T. R. Ashley, eds. 1978. Facilities for Insect Research and Production. USDA Technical Bulletin 1576. 86 pp.

This book contains 28 articles on entomological facilities and constitutes the first comprehensive treatment of the subject. A limited number of copies are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, Stock No. 001-000-03767-6 (\$2.50). Single complimentary copies can be obtained from the editors until the supply is exhausted (P.O. Box 14565, Gainesville, FL 32604).

- (2) Whitmer, G. P. Rearing Methods for Insects. 17 pp. (Mimeographed)

Pat has compiled a manual for rearing the sweetpotato weevil, navel orangeworm, greater wax moth, and almond moth. This excellent set of unpublished methods is available to individuals who specialize in the rearing of stored-product pests (P.O. Box 14565, Gainesville, FL 32604).

- (3) Singh, Pritam. 1977. Synthetic Diets for Insects and Mites. pp. 131-250. In: Rechcigl, M. Jr. (Ed.) CRC Handbook Series in Nutrition and Food. Section G. Vol. II. CRC Press, Cleveland, Ohio.

- (4) Singh, Pritam. 1977. Artificial foods for the bat-fly Mystacinobia zelandica Holloway (Diptera: Mystacinobiidae). New Zealand J. Zool. 4: 331.

- (5) Singh, Pritam and J. G. Charles. 1977. An artificial diet for larvae of the potato tuber moth. New Zealand J. Zool. 4: 449-451.

- (6) Patana, Raymond. Layered Diet for Pink Bollworm Rearing, ARS W-47, September 1977, 10 pp.

ABSTRACT. Discusses a method of rearing pink bollworms on layers of lima bean diet, alternately layered with waxed paper; improvements in methods and materials; and problems in rearing pink bollworms as a host for parasite production for large-scale field releases. This diet modification was used for rearing both the host and the egg-larval parasite, Chelonus blackburni Cameron. During four consecutive summers, over 4.6 million pink bollworm pupae were produced by this method, and 9.1 million C. blackburni were produced for field release.

- (7) Patana, Raymond. Rearing Selected Western Cotton Insects in the Laboratory. ARS W-51, December 1977, 8 pp.

ABSTRACT. Laboratory cultures of the following five species of Lepidoptera are continuously maintained at the Cotton Insects Biological Control Laboratory, Tucson, Ariz., as hosts for parasites and predators, and as test insects for ecological and nutritional studies: Bollworm, Heliothis zea (Boddie); tobacco budworm, Heliothis virescens (F.); beet armyworm, Spodoptera exigua (Hübner); saltmarsh caterpillar, Estigmene acrea (Drury); and the pink bollworm, Pectinophora gossypiella (Saunders). Improvements in the handling of the insect diet and the above-mentioned insects are discussed.

- (8) Manoukas, A. 1977. Biological characteristics of Dacus oleae larvae (Diptera, Tephritidae) reared in a basal diet with variable levels of ingredients. Ann. Zool. Ecol. Anim. 9: 141-48.

- (9) Manoukas, A. and B. Mazomenos. 1977. Effect of antimicrobials upon eggs and larvae of Dacus oleae (Diptera, Tephritidae) and use of propionates as larval diet preservatives. Ann. Zool. Ecol. Anim. 9: 277-85.

- (10) Tsitsipis, J. A. 1977. An improved method for mass rearing of the olive fruit fly, Dacus oleae (Gmel.) (Diptera Tephritidae). Z. angew. Entomol. 83: 41926.

- (11) Tsitsipis, J. A. 1977. Development of a caging and egging system for mass rearing the olive fruit fly, Dacus oleae (Gmel.) (Diptera, Tephritidae). Z. angew. Entomol. 83: 96105.

- (12) Manoukas, A. G. and G. J. Tsiropoulos. 1977. Effect of density upon larval survival and pupal yield of the olive fruit fly. Ann. Entomol. Soc. Am. 70: 41416.

This information is to be utilized in compiling a list of colonized arthropods which will be published and available for distribution. Please return to:

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1. Class _____; Order _____; Family _____
Scientific name _____; Common name _____
2. Availability (check one) Research quantities; Colony starts;
 very limited.
3. Time in culture: years _____. 4. Source of culture: Country _____
State _____; County _____; City _____;
Host _____.
5. Rearing diet: Natural (Scientific name) _____, (Common
name) _____; Artificial (Main diet ingredients) _____
6. Rearing procedure reference: Author, last name _____, first
name _____; middle initial ____; Other authors _____
yr. ____; Title _____
Published in _____
Vol. ____; pages _____.
7. Present use of culture _____
8. Other (include pertinent info such as aseptic culture, genetic markers, etc.)

9. Submitted by: _____, Mailing Address _____
Telephone number _____.

* Please photocopy this form and submit a separate page for each species reared.

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14801 Oxnard St.
Van Nuys, CA 91401 \$4.62/lb

Perney, Inc.
Ridgewood, NJ 7.80/lb

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American Cyanamid
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Princeton, NJ 08540 8.00/lb

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Cargill, Inc.
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Cleveland, OH 44128 .37/lb

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St. Louis, MO 63178 6.80/lb

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Erie, IL 61250 .72/lb

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131 Thunderbird Dr.
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