

# IOBC Newsletter 33

ORGANISATION INTERNATIONALE DE LUTTE BIOLOGIQUE CONTRE LES ANIMAUX  
ET LES PLANTES NUISIBLES (OILB)

DECEMBER 1984

IOBC/OILB is affiliated to the International Council of Scientific Unions (ICSU)  
as the Section of Biological Control of the International Union of Biological Sciences (IUBS)

## EDITORIAL

This is the first Newsletter published by the recently elected IOBC Executive Committee. It will be our aim to produce Newsletters at regular interval (4 issues per year as far as possible), and to concentrate on the dissemination of information useful to workers in the field of biological and integrated control. The Councils of the various Regional Sections as well as the Chairmen of the global IOBC Working Groups are welcome to make use of this opportunity.

As a result of the present situation — which is partly described in V. Delucchi's presidential address — some of the operations of the global body are to be critically reviewed. Discussions are currently being held in particular with the WPRS/SROP, the editorial board, and the printing house in order to find a way to further improve quality and distribution of the scientific journal ENTOMOPHAGA.

At this stage, it should be reminded that full individual members of IOBC are offered several advantages, which have been so far largely ignored, i.e. :

- they receive the journal ENTOMOPHAGA at a substantially lower rate
- they qualify for having up to 10 pages printed free of charge in this journal per year
- they also receive the Newsletters and other relevant documents.

To avoid any mailing delay, please fill out and return the attached subscription notice at your earliest convenience

The Secretary-General

## GENERAL ASSEMBLY

Numerous members attended the General Assembly of the global IOBC, which was held during the 17th international Congress of Entomology in Hamburg on August 20, 1984. G. Mathys, Secretary-General of this Organization for the period 1976 to 1984, made a report of IOBC activities over the last four years. Five Working Groups are presently being supported at the global level. It has been decided to create a new Regional Section based in Latin America (LARS). Considerable difficulties did occur with the former publishing house of ENTOMOPHAGA, but a new printer could be found and the situation is now back to normal.

As a result of the postal ballot which was organized from March to July 1984, the Executive Committee of the global IOBC is as follows for the period 1984-88 :

President : V. Delucchi, Institut für Phytomedizin, Clausiusstr. 21 ETH-Zentrum, 8092 Zurich (Switzerland)

Vice-Presidents : V.A. Lebedev, Ministry of Agriculture, Main Plant Prot. Dept., Orlikov pereulok 1/11, Moscow 107139 (USSR)

J.R. Coulson, Beneficial Ins. Introd. Lab., ARS, USDA BARC, East Building #17, Beltsville, Maryland 20705 (USA)

Secretary-General : J.P. Aeschlimann, CSIRO Biol. Control Unit, 335 avenue Parguel 34100 Montpellier (France)

Treasurer : K. Carl, CIBC European Station, 1 chemin des Grillons, 2800 Delémont (Switzerland)

Past-President : K. Hagen, Div. of Biol. Contr., Univ. of California, 1050 San Pablo Ave, Albany California 94706 (USA)

The incoming President delivered the following address :

## EXCERPTED FROM THE PRESIDENTIAL ADDRESS

I have been involved in IOBC since its foundation in 1956 and I thank you for the privilege of being your president until 1988. My predecessor, K. Hagen, said in his address four years ago, that it was an honour to become president during a period when IOBC was thriving and the importance of biological control of pests widely recognized. The present financial situation is, however, catastrophic and old problems tend to persist. Every Council has been confronted with the problem of communicating, at a cost acceptable to both the members and the Organization. This also involves the Newsletters and ENTOMOPHAGA. To finance the activities of the global body, funds have dropped to 6% of the amount available in 1980 (about 100'000 US \$ !). As a consequence, IOBC has now to reduce the level of its activities. It might be necessary to establish country representatives with the task of identifying potential members, collecting funds and maintaining a connection with the global organization. We need the support

of all categories of members, despite the crisis which markedly affects the institutions of all countries. As published by IUBS in 1949, the aim of IOBC was to establish a documentation service, a taxonomic service, a survey service, and an application service for the introduction of natural enemies. Only two services were established in 1956; the documentation service proved soon to be unrealistic while the taxonomic service has survived as part of the WPRS/SROP. In addition, working groups were created, that have become the pillars of this Organization. Five working groups are now attached to the global body: Trichogramma, Heliothis, Ostrinia, Bruchids, and Quality Control in Mass-Reared Arthropods. These working groups are needed to improve our knowledge, and they should continue their activities. This Organization is concerned with the biological control of pests as such, and also as one of the most important components of the agroecosystem, an aspect which should be emphasized in future with regard to the development of IPM-programmes. (...).

I hope that you will be able to help the new Executive Committee, and I would like to encourage you to write to members of this Executive Committee anytime you like.

V. Delucchi

## NEWS FROM WORKING GROUPS

### WG TRICHOGRAMMA

There are three subgroups in this unit, each dealing with particular aspects of the egg-parasitoids: Subgroup Mass Production and Utilization (Chairman S.A. Hassan)

Subgroup Ecology and Behaviour (Chairman J.C. van Lenteren)

Subgroup Systematics and Genetics (Chairman J. Voegelé)

A first international symposium was held in Antibes in April 1982, the second is due to be held in Guangzhou (P. Rep. of China) in November 1986. A special workshop has been organized during the international Congress in Hamburg. A first issue of the « Trichogramma newsletter » was released in April 1983, whereas no. 2 is to appear soon (copies may be obtained from J. Voegelé, INRA, Station de Zoologie, 37 bd. du Cap, 06602 Antibes, France).

### WG QUALITY CONTROL IN MASS-REARED ARTHROPODS

Co-chairmen D.L. Chambers and E.F. Boller. The second meeting and workshop devoted to the quality control in arthropods reared for genetic control programmes, and in entomophagous species was held in Wädenswil (Switzerland) from August 6 to 9, 1984. 40 scientists from 15 countries attended this meeting. Several lists of projects and an order of priority were defined. Projects which are due to be accomplished by 1986 include a glossary of technical terms, bibliographies of quality control, a description of rapid tests, an instruction manual, among others. Some are to be tackled later on.

### WG HELIOTHIS

An informal workshop was organized at the 17th Congress of Entomology, with 27 research workers from 12 countries in attendance. This was co-chaired by E.G. King, K. Carl and B.D. Perkins. It was agreed to improve the structure of this WG and to establish some goals including meeting on a biennial basis, in 1986 for the first time.

A newsletter is also being issued by this WG; no. 3 has appeared in October 1984 whereas no. 4 will be distributed in April 1985. Those interested may have more information from E.G. King, USDA ARS, Ins. Mgmt. Lab., P.O. Box 225, Stoneville, Mississippi 38776 (USA).

### WG OSTRINIA NUBILALIS

Chairman: P. Anglade

Entomologists and plant breeders are cooperating for the development of maize lines resistant or tolerant to attacks by the corn borer. Newsletter 4 (1) was issued in May 1983.

### WG BRUCHIDS

Chairman: V. Labeyrie

## NEWS FROM THE REGIONAL SECTIONS

### WEST PALAEARCTIC REGIONAL SECTION (WPRS/SROP)

The new Secretary-General is J.P. Bassino, ACTA, 149, rue de Bercy, Paris CEDEX 12 (France).

WPRS produces its own information carrier called « Profile ». Two issues are available, no. 2 being from June 1984. For more detail or additional copies, ask E.F. Boller, Swiss Federal Research Station, 8820 Wädenswil (Switzerland).

The following special bulletins have been edited so far in 1984. They are available from C. Pelereys, Vice-President SROP, Faculté des Sciences agronomiques, Coupure Links 533, 9000 Gand (Belgique):

1984/VII/5 Lutte intégrée contre les psylles du poirier (Integrated control of pear psyllids). Colloque intern., Toulouse, 27-29.9. 1983, 388 p.

1984/VII/3 Influence of pesticides on the beneficial fauna in fruit trees. WG Protection intégrée en verger, 67 p.

1984/VII/2 Integrated control in viticulture, 5th plenary session, Toulouse, 1983, 76 p.

1984/VII/1 Attractants and pheromones of noxious insects, 176 p.

### EAST PALAEARCTIC REGIONAL SECTION (EPRS)

The following Executive Committee was elected for the period 1984-86:

President: N.M. Golishin, Plant Prot. Div., Acad. of Agric. Sciences, B. Charitonjevsky per. 21, Moscow 107814 (USSR)

Vice-President: D. Benke, Plant Prot. Inst., Hungarian Acad. of Sci., Hermann Otto Str. 15, P.O. Box 102, Budapest 1525 (Hungary)

Secretary-General: V.I. Martynenko, Plant Prot. Dept. V/O Min. of Agric. Orlikov pereulok 1/11, Moscow 107139 (USSR)

Members: T. Baicu, Div. Plant Prot. Inst., Ion Ionescu de la Brad av. 8, 71592 Bucharest 1 (Romania)  
K.V. Novozhilov, All-Union Res. Plant. Prot. Inst. Podbelskogo 6, Leningrad-Pushkin 6 188620 (USSR)

Two information bulletins have recently been published:

8 (1983) concentrating on the use of sex pheromones and sex attractants in insect pests

9 (1983) dealing mainly with entomophagous of *Hyphantria cunea*, *Choristoneura murinana* and white flies.

### SOUTH AND EAST ASIAN REGIONAL SECTION (SEARS)

Secretary-Treasurer is Wiwat Suasard, National Biol. Contr. Res. Center, Kasetsart University, P.O. Box 9-52, Bangkok, Bangkok 10900 (Thailand)

**WESTERN HEMISPHERE REGIONAL SECTION (WHRS)**

Secretary-Treasurer is F.E. Gilstrap, Dept. of Entomology, Texas A & M University, College Station, TX 77843 (USA)

**LATIN AMERICAN REGIONAL SECTION (LARS)**

The following Executive Committee was elected on July 10, 1984 :

President : F. Moscardi, Casilla postal 1061, 86 Londrina PR (Brazil)

Vices-Presidents : Ms. F. Garcia, Inst. Colombiano Agropec., Palmira, Valle del Cauca (Colombia)

P. Aguilar, Dept. de Biología, Univ. Nac. Agraria La Molina, Apartado 456, Lima (Peru)

A. Nasca, Casilla de Correo 90, 4000 S.M. de Tucuman (Argentina)

Secretary-General : R. Gonzalez, Fac. Cienc. Agrar., Univ. de Chile Casilla 1004, Santiago (Chile)

Members : A. Rada, Inst. Chileno-Canadiense, Av. Américo Vespucio Sur 388, Santiago (Chile)

F. Bennett, Comm. Inst. Biol. Contr., Gordon Str., Curepe (Trinidad)

**ANNOUNCEMENTS**

*ENTOMOPHAGA* 29 (4), 1984.

Contents (courtesy of B. Hurpin)

Carver, M. — The potential host ranges in Australia of some imported aphid parasites (*Hym. : Ichneumonidae : Aphidiidae*)

Cohen, A.C. — Food consumption, food utilization, and metabolic rates of *Geocoris punctipes* (*Het. : Lygaeidae*) fed *Heliothis virescens* (*Lep. : Noctuidae*) eggs

Babi, A., Pintureau, B. & Voegelé, J. — Study of *Trichogramma dendrolimi* (*Hym. : Trichogrammatidae*), description of a new subspecies

Goodwin, P.A. & Shields, K.S. — Effects of *Blepharipa pratensis* (*Dip. : Tachinidae*) on the pathogenicity of nucleopolyhedrosis virus in stage V of *Lymantria dispar* (*Lep. : Lymantriidae*)

Katsoyannos, P. — The establishment of *Ryzobius forestieri* (*Col. : Coccinellidae*) in Greece, and its efficiency as an auxiliary control agent against a heavy infestation of *Saissetia oleae* (*Hom. : Coccidae*)

Delmas, F. & Timond-David, P. — Experimental study of the effect of invertebrate rickettsiae on vertebrates : infection in mice by *Rickettsiella grylli* by intranasal and oral routes

Baloch, G.M. & Ghaffar, A. — Natural enemies of *Chenopodium* spp. in Pakistan with notes on *Trioza chenopodii* (*Hem. : Psyllidae*), a promising biocontrol agent.

Jayanth, K.P. & Nagarkatti, S. — Testing *Bessa remota* (*Dip. : Tachinidae*) against *Opisina arenosella* (*Lep. : Cryptophasidae*) and other lepidopterous hosts in India

Toguchbaye, B.S. & Marchand, B. — Histological and cytological study of a natural microsporidiosis in an African ladybird, *Henosepilachna elaterii* (*Col. : Coccinellidae*)

Narendran, T.C. — Key to Indian genera of the family *Chalcididae* (*Hym. : Chalcidoidea*)

Gerling, D. & Rivnay, T. — A new species of *Encarsia* (*Hym. : Aphelinidae*) parasitizing *Bemisia tabaci* (*Hom. : Aleyrodidae*)

Krishnamoorthy, A. — Influence of adult diet on the fecundity and survival of the predator, *Chrysopa scolestes* (*Neur. : Chrysopidae*)

Maniania, N.K. & Fargues, J. — Host specificity of entomopathogenic hyphomycetes to noctuids

**NEW BOOKS**

Greathead, D.J. & Waage. 1983. — Opportunities for biological control of agricultural pests in developing countries. Techn. Paper no 11, World Bank, 44 p. (Single copies free, available from the Publication Service, World Bank, 1818 H St., NW Washington DC 20433, USA)

Kisimoto, R. (editor). 1984. — Rice Pest Management. Papers presented at the 15th Pacific Science Congress, 1-11 February 1983, Dunedin (New Zealand). *Protection Ecology* 7 (2-3), 79-240 (Special Issue)

Nonveiller, G. 1984. — Catalogue des insectes du Cameroun d'intérêt agricole. (Apparitions, répartition, importance), Belgrad, 200 p. (Available at the Inst. for Plant Protection, Teodora Drazizera 9, 11000 Beograd, Yugoslavia)

Ananthakrishnan, T.N. 1984. — Biocology of Thrips. 205 p. (May be obtained from Indira Publ. House, P.O. Box 37256, Oak Park, Michigan 48237, USA)

Leigh, J., Boden, R. and Briggs, J. *Extinct and Endangered Plants of Australia*. 412 p. (Order from Globe Book Services, Freeport 12, 107 Moray Str., South Melbourne 3205, Australia)

Kelleher, J.S. & Hulme, M.A. (editors). 1984. *Biological Control Programmes Against Insects and Weeds in Canada 1969-1980*. Comm. Agric. Bureaux, 410 p. (Obtainable from the Commonw. Agric. Bureaux (J. No 372), Farnham House, Farnham Royal, Slough SL2 3BN, UK. Price 60.00 US \$).

Kerkut, G.A. & Gilbert, L.I. (editors). 1985. *Comprehensive Insect Physiology, Biochemistry and Pharmacology*. To be published in 13 volumes with over 8 000 pages. Pergamon Press (Headington Hill Hall, Oxford OX3 0BW, UK or Fairview Park, Elmsford, New York 10523, USA)

**COLOUR SLIDE ATLAS**

The Society for Invertebrate Pathology announces availability of a teaching slide set of 200 colour transparencies of pathogens and diseases. Slides are numbered and arranged into five categories : bacteria, viruses, fungi, protozoa, and nematodes. The price is US \$ 40, plus \$ 5 for airmail delivery. Order to : R. Gaugler, Dept. of Entomology, P.O. Box 231, Rutgers University, New Brunswick, NJ 08903 (USA).

**FORTHCOMING MEETINGS**

May 13-17, 1985. Fourth Australasian Conference on Grassland Invertebrate Ecology. Lincoln College, University College of Agriculture, Canterbury (New Zealand). More information from S.L. Goldson, Agricultural Res. Division MAF, P.O. Box 24, Lincoln (New Zealand).

May 1985. Second International Short Course on Biological Control of Insect Pests and Weeds. University of California, Berkeley, California (USA). More information from M.A. Altieri, Div. Biol. Control, Univ. of California, 1050 San Pablo Ave., Albany, CA 94706 (USA).

October 1985. National Symposium for IPM on Major Managed Agricultural Systems. Washington, D.C. (USA). More information from R.E. Frisbee, Systems Building Room 312, Texas A & M Univ., College Station, TX 77843 (USA).

#### WHEAT APHID PARASITOID SOUGHT

The wheat aphid *Diuraphis noxia* was observed for the first time in 1978 in South Africa, where it has become the most important pest of wheat. The local parasitoid species do not seem to be effective

Montpellier, December 15, 1984

in controlling this aphid. Who could help to detect a strain of *Trioxys lambersi*, a parasitoid that might assist in reducing *D. noxia* pest populations? Contact P.H. Hewitt, Dept. Zool. and Entomol., P.O. Box 339, Univ. of Orange, Bloemfontein, RSA.

#### FEEDBACK

IOBC members, and in particular chairmen of Working Groups and Committee members of the Regional Sections are invited to send progress reports, news and announcements of general interest they would like to have inserted in the next issue of IOBC-Newsletter before March 15, 1985 to the Secretary-General.

Editor of this issue : Jean-Paul AESCHLIMANN