SOCIETY FOR VECTOR ECOLOGY
EUROPEAN REGION

Programme and Abstracts of Offered Papers

4th Annual Conference
Faculty of Agriculture
University of Novi Sad

August, 20th to 24th 1989
ACKNOWLEDGEMENTS

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Jugoslovensko Kemikalno Društvo
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SIZ za Nančići rad Vinkovci
Strošarsko veterinarski centar
Zavod za zdravstveno obezbeđenje
Zavod za zdravstveno obezbeđenje

Organizing Committee

Prof. dr Živko Srdić - Dr Marija Zgomba - Dr Dušan Petrić

Ministry for Environment Protection
Laslo Minda - Deputy Minister for Environment Protection of SAPV
„Ciklonizacija” - Mosquito Abatement Organization
Milomir Marković - Marketing Manager
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SIZ za Naučni rad Vojvodine
Stočarsko veterinarski centar, Subotica
Zavod za zdravstvenu zaštitu, Sombor
Zavod za zdravstveno varstvo, Maribor

The Organizing Committee is also grateful for the help of many individuals who have given their time to the organization of the Conference.
Monday, 21st August

8.00 - 9.00  Registration at Faculty of Agriculture
9.00 - 9.10  Call to order and announcements

MARIJA ZGOMBA

9.10 - 9.20  Welcome to Faculty of Agriculture
BRANKA LAZIĆ - Dean of Faculty of Agriculture

9.20 - 9.30  Welcome Address of the SOVE President
CHESTER G. MOORE

9.30 - 9.40  Welcome Address of the European Regional Director
NORBERT BECKER

9.40 - 9.50  Welcome Address and Opening of the 4th SOVE Annual Conference
MIRKO TATIĆ - Vicepresident of Vojvodina Province Government

Session 1  
Chairman: Chester G. Moore

10.00 - 10.25  Ecological Knowledge as a Basis for Implementing Vector Control Programs
MIR S. MULLA

Department of Entomology, University of California, Riverside, California 92521, USA

10.25 - 10.50  Intraspecific Competition in Larvae of Several Container-Breeding Aedes Species
CHESTER G. MOORE

Div. Vector-Borne Viral Diseases, Centers for Disease Control, Fort Collins, Colorado 80522, USA

10.50 - 11.15  Inherited Factors Distorting Sex Ratios in Mosquitoes and Medflies
R. J. WOOD, A. S. SAAID and R. M. SHAHJAHAN

Department of Environmental Biology, Manchester University, M 13 9 PL

11.15 - 11.45  Coffee break

Continuation of Session 1

11.45 - 12.10  Variation of the Quantitative Trait as Indicator of Mosquito Population Heterogeneity in the Larval Feeding Behaviour
N. V. NIKOLAEVA

Institute of Plant and Animal Ecology, Sverdlovsk, USSR
Basis for an Ecological Cartography of the *Rhipicephalus sanguineus*
Populations in Marseille and its Suburbs in Relation to the
Various Types of Housing Development

**GILOT B.**, **LAFORE G.**, **PAUTOU G.**, **CABASSU J.P.**

1 Institut National de la Santé et de la Recherche médicale,
Laboratoire de Parasitologie. Faculté de Médecine. 27 bd Jean Moulin
13385 Marseille, Cédex 5, France.

2 Laboratoire de Botanique et Biologie Végétale. Université J. Fourier.
BP 53 X, 38041 Grenoble, Cedex, France.

3 12 avenue Prado 13006 Marseille, France.

Bio-Environmental Differences Between Active and Silent Tick Borne
Encephalitis Foci in Yugoslavia

**DANICA TOVORNIK, MARKO MATJAŠIĆ**

Institute for Hygiene, Epidemiology and Laboratory Diagnostics
Bohorjeva 15, Ljubljana

13.00 - 14.30
Lunch

**Session 2**

**Chairman: C. F. Curtis**

14.30 - 14.55
Observations on the Behaviour of Adult *Anopheles gambiae* Encountering Residual Deposits of
Lambda-Cyhalothrin Compared with the Other
Major Classes of Commercially Available Insecticides

**J. K. PELL**, **M. A. SPINNEY** and **K. J. WARD**

1 107 Station Road, Cromer, England

2 ICI Public Health, Jealott’s Hill Research Station, Bracknell,
Berkshire, England

14.55 - 15.20
Space Treatment Against Flying Insects

**J. DUGUET**

Roussel-Uclaf, Marxergasse 24/3/16, 1030 Wien, Austria

15.20 - 15.45
Further Development of Novel Water-Based Spray System for
Vector Control

**R. SLATTER, J. M. GROOME & R. MARTIN**

Technical Development Department, Wellcome Environmental Health,
Berghamsted, Herts, U.K. HP4 2DY

15.45 - 16.15
Coffee break
Continuation of Session 2

16.15 - 16.40
Pyrethroid Impregnated Polypropylene or Sisal Fibre Curtains Against Anopheles gambiae

C. F. CURTIS, T. J. WILKES and J. MYAMBA

London School of Hygiene & Tropical Medicine, London WC1E 7HT and Ubwari Field Station, Box 81, Muheza, Tanga, Tanzania

16.40 - 17.05
First Evaluation of the Use of Bed Nets in Central Africa

DESFONTAINE M. & CARNEVALE P.

OCEAC – B.P. 288 Yaoundé (Cameroon)

17.05 - 17.30
Control of a Saltmarsh Mosquito in the UK and Ecological Implications

GILLIAN M. ROBERTS

AFRC Institute of Horticultural Research, Littlehampton, West Sussex BN17 6LP, England

17.30 - 17.55
Mosquito Larvicides and Environmental Protection

P. BAUER

Duphar b.v. BP 26 F-13600 Ceyreste

20.00 - 22.00
Reception

Tuesday, 22nd August

Session 3

Chairman: Norbert Becker

8.30 - 8.55
Tracing the δ-Endotoxin Polypeptides of Bacillus thuringiensis Var. israelensis in Mosquito Larvae

KAMAL KHAWALED

Department of Biology, Ben-Gurion University of the Negev P.O. Box 653, Beer Sheva, Israel 84105

8.55 - 9.20
Laboratory and Field Evaluation of Some New Bacillus thuringiensis H-14 Formulations

BECKER N.1, RETTICH F.2, RYBA J.2, SCHLINDWEIN B.1

1 KABS Ludwigshafen, FRG

2 IHE Prague, CSSR

9.20 - 9.45
Efficacy of a New Tablet Formulation of an Asporogenous Strain of Bacillus thuringiensis israelensis Against Larvae of Aedes aegypti
Continuation of Session 3

10.15 - 10.40
The Effects of Various Bacillus thuringiensis and Bacillus sphaericus Isolates on the Different Instars of Aedes aegypti (Diptera Culicidae) Larvae

OZER, N., BOSGELMEZ, A., CAKMAKCI, L., ALTEN, E.
Hacettepe University, Science Faculty, Biology Department, Ankara, Turkey

10.40 - 11.05
Effectiveness of Several Bacillus Isolates on Culiseta longiareolata (Macq.) (Diptera: Culicidae) Under Natural Conditions

ALTEN, B., BOSGELMEZ, A.
Hacettepe University, Science Faculty, Biology Department, Ankara, Turkey

11.05 - 11.30
Indirect Effects of Several Crustaceans on the Use of Bacillus thuringiensis israelensis to Control Mosquitoes

LEON BLAUSTEIN and JOEL MARGALIT
Center for Biological Control of Mosquitoes, Department of Biology, Ben Gurion University, P.O. Box 653, Beer Sheva 84105 Israel

11.30 - 12.30
Business Meeting of the Society

12.30 - 14.00
Lunch

Session 4

Chairman: František Rettich

14.00 - 14.25
Rapid Methods for Determination Efficacy and Screening for New Bacteria Possessing Mosquito Larvicidal Activity

BELA OHANA, JOEL MARGALIT and ZE’EV BARAK
Department of Biology, Ben-Gurion University of the Negev, Beer Sheva, Israel

14.25 - 14.50
Isolation and Identification of Cyanobacteria from Mosquito Breeding Sites and Their Properties as Potential Agents for Mosquito Control

J. THIERRY, L. NICOLAS, R. RIPPA and N. TANDEAU DE MARSAC

1 Unités des Bactéries Entomopathogènes et de Physiologie Microbienn
Institut Pasteur, 28 rue du Docteur Roux, 75015 Paris, France

14.50 - 15.15
The Blue and Green Algae as Components of Mosquito Larvae Food. A Study for Assessing the Possibility of an Effective Mosquito Control by Microorganisms Containing Bacillus thuringiensis Genes.

POPOVSKY J., RETTICH F., RYBA J.

Institute of Hygiene and Epidemiology, Prague

15.15 - 15.40
Bioencapsulation of the δ-Endotoxin of Bacillus thuringiensis Var. israelensis and its Delivery to Aedes aegypti Larvae by the Infusorian Tetrahymena pyriformis

ARIEH ZARITSKY, VALERY ZALKINDER, ETIAN BEN-DOV & ZE'EV BARAK

Department of Biology, Ben Gurion University of the Negev, P.O. Box 653, Beer Sheva, Israel 84015

15.40 - 16.10
Coffee break

Continuation of Session 4

16.10 - 16.35
Mexostoma lingua: Mechanisms of Predation and Evidence for Control of Mosquitoes in Rice Fields

LEON BLAUSTEIN

Center for Biological Control of Mosquitoes. Department of Biology, Ben Gurion University P. O. Box 653, Beer Sheva 84105 Israel

HENRY J. DUMONT

Ecological Institute, State University of Ghent 9000 Ghent, Belgium

16.35 - 17.00
Seasonal Abundance and Activity in Italy’s Romagna of Indigenous Parasitoids of Filth Breeding Flies

BELLINI R., MAINI S.

Instituto di Entomologia “G. Grandi” — Università di Bologna-1

17.00 - 17.25
Negative Interactions Between Two Predatory Fishes in Rice Fields: Effects on Mosquito Control

LEON BLAUSTEIN

Center for Biological Control of Mosquitoes. Department of Biology, Ben Gurion University. P. O. Box 653, Beer Sheva 84105 Israel

19.00 - 20.00
Visit to Vojvodina Museum of Natural History

20.00
Conference Dinner
Wednesday, 23rd August

7.30  Excursion to "Kopacki rit" National Park
20.00 Dinner

Thursday, 24th August

Session 5  Chairperson: Marija Zgomba
8.30 - 8.55  Insecticide Resistance and Highly Active Esterase in Sardinian Populations of *Culex pipiens* (Diptera: Culicidae)

A. MARCHI, G. ADDIS and G. MARRAS

Instituto di Biologia Generale, Università di Cagliari, Via Ospedale 119, 09124 Cagliari (Sardinia), Italy

8.55 - 9.20  Systematic Approach and Mosquito Control

PAUTOU G.↑, DEVAU B.↑ et GRUFFAZ R.↑

↑ Laboratoire de Botanique et Biologie Végétale, Université J. Fourier, BP 53 X. 38041 Grenoble Cedex, France

↑ Entente Interdépartementale Ain-Isère-Rhône-Savoie pour la Démoustication, BP 2. 73310 Chindriex, France.

9.20 - 9.45  Mosquito Control in the Rhone Alp Region: Covering the Theory and Practice

GRUFFAZ R.↑, DEVAU B.↑ et PAUTOU G.↑

↑ Entente Interdépartementale Ain-Isère-Rhône-Savoie pour la Démoustication, BP 2. 73310 Chindriex, France

↑ Laboratoire de Botanique et Biologie Végétale, Université J. Fourier, BP 53 X. 38041 Grenoble Cedex, France

9.45 - 10.15  Coffee break

Continuation of Session 5

10.15 - 10.40  Evaluation of the Efficacy of Mosquito Control on the French Mediterranean Coast Using Human Bait Collections

GABINAUD A., COUSSERANS J., SINEGRE G.

Entente Interdépartementale pour la Démoustication du Littoral Méditerranéen, B.P. 6036-34030 Montpellier cedex 1 — France

10.40 - 11.05  Some Experience with the Mosquito Control in the City of Zagreb
DARKA HAMEL
Institute for plant protection Zagreb

VLADIMIR VUKOVIĆ
Institute for public health of Croatia, Zagreb

ZDRAVKO HARAMINČIĆ
Institute for health protection of Zagreb

11.05 - 11.30
Individual and Familial Antivectorial Measures Currently Used in Three Towns in South Cameroon

P. CARNEVALE and M. DESFONTAINE
OCEAC – B.P. 288 Yaoundé (Cameroon)

11.30 - 11.55
Oviposition Behaviour and Egg Mass Development in *Simulium reptans* (Linnaeus, 1758)

JAMES COUPLAND
University of Aberdeen, Department of Zoology, Tillydrone Avenue, Aberdeen AB9 2TN, Scotland UK

11.55 - 12.20
Cytoplasmic Incompatibility in West African Strains of *Culex quinquefasciatus* Say (Culicidae, Diptera)

THOMAS F. KRUPPA
Bernhard-Nocht-Institut, Bernhard-Nocht-Str. 74, 2000 Hamburg 36, West Germany

12.20 - 12.45
Faunistic Observations in the Cours of Mosquito Control Along the River Danube

JUDIT EROSS
Budapest, Fovarosi Kojal, 1393 Budapest, Pf 412, Vaci ut 174, Hungary

Exophagy and Exophily in Malaria Vectors

H. RIBEIRO and J. G. JANZ

1 Centro de Doenças Infecciosas e Parasitárias, Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, 1300 Lisboa, Portugal

12.45 - 12.55
Fairwell Address and Closing of the 4th Annual Conference

ŽIVKO SRĐIĆ