

NAV News Letter

Published by the National Academy of Vector Borne Diseases • VOL. 5 OCTOBER, 1999

4TH INTERNATIONAL SYMPOSIUM IN VECTOR AND VECTOR BORNE DISEASES

DRDE, GWALIOR, FEBRUARY, 1999

INAUGURAL ADDRESS

Dr. A.K. Datta

Chief Controller (R&D), DRDO Headquarters, New Delhi-11

In India, the major vector borne diseases are malaria, filariasis, dengue/dengue haemorrhagic fever, Japanese encephalitis and Kala-azar. The communicable diseases transmitted by these vectors are on the ascending trends, despite the fact that today we are well equipped with ecology of vectors, causative agents, transmission dynamics, diagnostics, drugs, potent insecticides and well support by modern equipment, resources, man, machine and money power. Even after the five decades of independence, the vector borne disease continue to take heavy toll in terms of mortality and morbidity in different parts of India and other Southeast Asian countries.

Certain vector borne disease have raised their ugly heads again. Return of Plague in Maharashtra and Gujarat during 1994 is the glaring example. The diseases was forgotten by the entomologists but the "return" forced the experts to carry out

extensive studies and to develop suitable diagnostics for the future. The sudden outbreak of plague is a warning to all of us.

Fortunately, Onchocerciasis or river blindness, caused by Simuliids, is not present in India, but the vector-Simuliid or black fly, commonly known as Dimdam by our troops, is very prevalent in whole of the North East. The vector breeds in streams, and the water being used for drinking purposes by tribals and troops. Hence, larvicidal control does not seem to be feasible.

Likewise, Schistosomiasis, caused by snails is present in humans as well as in cattle. We have faced this problems of Schistosomiasis in equines maintained by remount veterinary core of Army thereby causing animal mortality.

You will agree with me that war in any country is always unwelcomed until and unless it is inescapable or thrust upon. In our Geeta also, Lord Krishna has advocated that war must be avoided as much as possible. But, war not only against the enemy, but it is against the hostile environment also. Troops have to fight at both the fronts. For NATO and Warsaw Pact Nations, the winter is a major enemy while the winter saved the earstwhile Soviet troops from the Germans. Similarly for

American troops, the hostile jungle was the biggest enemy in Vietnam.

For Indian troops, the lush green jungles with high humidity creat problems in the North East while soldiers in Rajasthan suffer due to lack of fresh drinking water. As you know, our troops and tribals suffer with malaria in Mizoram, while exposed to Dimdam bites during broad sunlight in Arunachal Pradesh. Culicoides enter the bednets even. While on exercises or night patrolling, the same troops are attacked by blood sucking land-licees. Now you can very well imagine the plight of our soldiers who are on the borders saving the country from the enemy.

As you know well, the vector borne diseases continue to be of great public health importance and control of these diseases, which are closely linked to ecological factors, mainly depends on anti-vector measures. I am of the opinion that insecticides are the only answer for antivector measures, but its approach should be rational. Extensive use of insecticides is also very harmful keeping the environmental pollution in view. Technical and operational problems caused by extensive use of insecticides, the WHO has been collaborating the member countries to adopt and promote integrated control methods.

INSIDE

- Fifth International Symposium on Vectors and Vector Borne Diseases 3
- Important Achievements by Life Members 5
- 50 Travelling Fellowships to Young Scientists by AgrEvo 8
- New Life Members 8
- About the Academy 9
- Membership Form 10

In Armed Forces, repellents are being used as most effective personal protection measures. Another personnel protective measure is the development of impregnated bednets to cut off man-vector contact. National Institutes like National Institute of Communicable Diseases (NICD), National Malaria Eradication Programme (NMEP) and Malaria Research Centre (MRC) under Indian Council of Medical Research (ICMR) have done commendable work in introducing the impregnated bednets specially in the tribal areas where malignant malaria is rampant. Besides India, impregnated bednets have been very common personal protection measure in other Southeast Asian countries like Thailand and Bangladesh.

The present day vector control has direct relationship with the community. Involvement of villagers in a vector control programme is need of the day. The glaring examples are field studies carried out in Kheda-Gujrat state, where Malaria Research Centre has worked and other in Pondicherry where Vector Control Research Centre has earned fame. All efforts were

made to involve the local populace. I am of the opinion that no village scale field trials on any vector control can be successful until and unless, there is an involvement of the community.

If you don't mind, may I tell you that general tendency of the scientist is work in the laboratory and publish the research papers in reputed Journals. Most of the scientists are not interested to go to field. The other lot of scientists never bother what has happened to their research. If research is linked with "Product" or "test kit" development i.e. to develop and produce products like drugs, vaccine etc., test them in tropical countries or its introduction into community or trade, the research is worth a million dollar achievement. Please be sure, you have to account for every rupee of the public money, which you have spent or public is spending on you.

In this symposium, fortunately a number of very senior entomologists/malariologists like Dr. Kondrachine, Dr. V.P. Sharma, Dr. S. Pattanayak and Dr. Sarla Subbarao are participating. May I request you all

to discuss these problems in length and bring out concrete proposals. I will be glad if some joint studies are taken up with institutes like MRC, VCRC and RMRCs. I assure you, monetary funding will not be a problem.

I know the coming three days will be very hectic for you. I will request Dr. R.V. Swamy, Director, DRDE and Dr. P.R. Malhotra, Convener of the symposium to closely liaise with all the scientists/professors of the various universities to explore the possibilities of joint ventures, beneficial to our Armed Forces and local populace.

It gives me immense pleasure to inaugurate the Fourth International Symposium on Vectors and Vector Borne Diseases at DEFENCE R&D ESTABLISHMENT, Gwalior with reference to Alma Ata declaration - Health for All by the Year 2000 AD.

I thank you all for patiently hearing me. If I have hurt any one's feelings, it was not intentional. If you think deeply, you will find many examples of what I have said.

Thank you again.

Recommendations of the 4th International Symposium on Vectors & Vector Borne Diseases

The following committee was constituted by the 4th International Symposium on "Vectors & Vector Borne Diseases".

1. Dr. S. Pattanayak
2. Dr. V.P. Sharma
3. Dr. A.V. Kondrachine
4. Prof. M.K.K. Pillai
5. Prof. A.P. Dash
6. Dr. P.R. Malhotra

The recommendations of the committee are as follows:

1. Industries should organise workshops, conferences to develop close interaction within research institutions and industries, participate in product development and in optimizing field operations wherever necessary.
2. Withdrawal and early ban on the use of chlorinated hydrocarbon insecticides in malaria control.

3. Synthetic pyrethroid should be used judiciously and in a restricted manner under conditions of absolute necessity. Field research should be directed to develop sustainable and selective vector control. This would include greater emphasis on non-chemical methods of vector control. Research on rotation of insecticides, possibility of use of mixtures of insecticides and development epidemiological indices to guide selective vector control.

4. Malaria vaccine trials have been done in many countries and this field has made substantial progress in the last few years. As a result of new knowledge on basic immunology, molecular biology and vaccinology, a potential candidate vaccine for immunisation against malaria is likely to be ready in near future. As malaria is a major public health problem in India, it is imperative that atleast 2-3 field areas should be selected and prepared for undertaking field trials.

5. The groups noted the rising trend in dengue and DHF in the urban and rural

areas and recommends mass IEC compaigns directed for source reduction. Training of medical doctors in the management of DHF and research on innovative methods for control of *Aedes aegypti*.

6. The group recommends enhanced financial allocation for research on vector control and development of new drugs, diagnosis and vaccines.
7. Research in epidemiology of vector borne diseases should be given impetus for optimizing control of malaria and other vector borne diseases.
8. Pathogen banks should be established in the country to support basic and applied research and as reference material for the future. Similarly insects of Medical importance should be preserved in research institutions and a few laboratories should be given recognition as advance taxonomic laboratories.

The venue of the 5th International Symposium on Vectors & Vector Borne Diseases will be the Punjabi University, Patiala in February, 2000.

FIFTH INTERNATIONAL SYMPOSIUM ON VECTORS AND VECTOR BORNE DISEASES

16-18 FEBRUARY, 2000

Venue : Department of Zoology, Punjabi University, Patiala, Punjab, India

Dear Colleague,

The Fifth International Symposium on Vectors and Vector Borne Diseases will be organised at Department of Zoology, Punjabi University, Patiala. The theme of the symposium is the role of vectors and the importance of vector borne diseases in the 21st century. It is our proud privilege to invite you all to participate in this Symposium.

THE ACADEMY

The National Academy of Vector Borne Diseases is a non-profit, scientific academic organisation, established in 1994 in India with nearly 60 eminent scientists from 17 different states of the country. The academy so far has organised four Symposia at Bhubaneswar, Goa, Puri and Gwalior in 1994, 1997, 1998 and 1999 respectively. This is the Fifth Symposium in the series.

THE SYMPOSIUM

The symposium will cover the recent advances in vector and vector borne diseases such as diagnostics, epidemiology, immunology, genetics, biotechnology, vector biology, vector systematics, ecology and control measures, specially related to malaria, filariasis, leishmaniasis, plague, onchocerciasis and arboviral diseases. The symposium will have plenary lectures, invited lectures, research papers and poster presentations and also exhibition of products and services.

THE PUNJABI UNIVERSITY AND THE CITY

The Punjabi University is situated at the Chandigarh-Patiala road having one of the most beautiful campus. The University has recently hosted 83rd Indian Science Congress in January 1996. The university is also the headquarter of The Punjab Academy of Sciences.

Patiala is a historic city as it was the capital of the erstwhile Princely State of Patiala. The city is famous as a city of gardens, for sports, historic forts, music (classical music of Patiala gharana) and above all for the famous Patiala Peg. The city is located about 250 km north of Delhi and well connected both by rail and road. The nearest airport is at Chandigarh, 65 km from Patiala. The weather in Patiala during the month of February shall be quite pleasant and the day temperature ranges between 10-15° Celsius and the night temperature between 5-10° Celsius.

REGISTRATION

The registration fees are as follows :

Indian Delegate	: Rs. 1000
Accompanying persons	: Rs. 600
Student Participant	: Rs. 600
Foreign Delegate from developed countries	: US\$ 250
Foreign Delegate from developing countries	: US\$ 125

CALL FOR SUBMISSION OF PRE-REGISTRATION FORMS

Pre-registration forms duly filled as per enclosed proforma and abstract should reach the conference secretariat at Patiala before 7th January, 2000. The second circular shall be sent in the month of October to the pre-registered delegates. Please circulate or display this circular in your Department or Institute. Abstracts may be sent to Dr. Jagbir Singh.

D.S. SIDHU
Chairman

DEVINDER SINGH
Joint Secretary

JAGBIR SINGH
Organising Secretary

CONTACT ADDRESSES**Dr. V.P. Sharma**

President

National Academy of Vector Borne Diseases
Malaria Research Centre, 20 Madhuban,
Vikas Marg, Delhi-110 092

Phone : 011-2247983 (Off.)
011-6885195 (Res.)
011-674587 (Res.)
Fax : 011-7234234

Dr. A.P. Dash

Secretary General

National Academy of Vector Borne Diseases
Regional Medical Research Centre
Chandrasekharpur, Bhubaneswar-751 016

Phone : 0674-444600 (Off.)
0674-441200 (Off.)
0674-440444 (Res.)
Fax : +91-674-444728
E-mail : apdash@hotmail.com

CONFERENCE SECRETARIAT**Dr. D.S. Sidhu**

Chairman

Fifth International Symposium on Vectors and
Vector Borne Diseases
Department of Zoology, Punjabi University
Patiala-147 002, Punjab, India

Phone : +91-175-28 2461-28 2465 Ext 6284 (Off.)
+91-175-218341 (Res.)
Fax : +91-175-283073

Dr. Jagbir Singh

Organising Secretary

Fifth International Symposium on Vectors and
Vector Borne Diseases
Department of Zoology, Punjabi University
Patiala-147 002, Punjab, India

Phone : +91-175-28 2461-28 2465 Ext. 6284 (Off.)
+91-175-28 2402 (Res.)
Fax : +91-175-283073

Pre-Registration Form

(Deadline : September 30, 1999)

Name :
Family Name First Name Middle Name

Designation :

Affiliation/Institute :

Mailing Address :

Tel.: Fax: e-mail:

Presentation (Oral/Poster/Exhibition/Attendance) :

Tentative title of paper :

Additional requirement/suggestion :

Date :

Signature

Mail to Dr. D.S. Sidhu / Dr. Jagbir Singh
Department of Zoology, Punjabi University, Patiala-147 002, India
Fax : +91-175-28 3073, e-mail : sidhuds@pbi.ernet.in

IMPORTANT ACHIEVEMENTS BY LIFE MEMBERS**Dr. V.P. Sharma received the Darling Award of the W.H.O.**

Dr. V.P. Sharma, President of the Academy received the 21st Darling Foundation Prize of the World Health Organisation for his exceptional achievements in combatting malaria in the Indian sub-continent. The prize consists of a medal and the sum of One thousand Swiss Frans. The award was presented to Dr. Sharma on 20.5.1999 by the President of the 52nd World health Assembly at Geneva.

Our heartiest congratulations to Dr. Sharma, who is among very few Indian to get this Honour.

**International Award on Hydatidosis to Dr. Md. Hafeez,
Principal, College of Veterinary Science, Tirupati**

Dr. Md. Hafeez, Principal, College of Veterinary Science, Tirupati and Life Member of National Academy of Vector Borne Diseases, has participated in the recently held "XIX INTERNATIONAL CONGRESS OF HYDATIDOLOGY" held at SAN CARLOS DE BARILOCHE, ARGENTINA between 20-24 September, 1999. He was invited as a Panellist for Scientific Session of the Conference by the Organisation.

He was the lone representation from our country who bagged a prestigious International Award of "Advances in Sanitary, Animal and/or Human Control in Hydatidosis" for his valuable research presentation on the "Prevalence of Hydatidosis - effective control measures in India" adjudged by the International Scientific Committee constituted by the World Eminent Scientists on Hydatidosis.

**FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY
NEW DELHI****CASH AWARD 1997-98**

Dr. V.P. Sharma, New Delhi

In recognition of individual initiative in Life Sciences, including Agriculture

Dr. V.P. Sharma, Director, Malaria Research Centre, New Delhi shares the 1997-98 FICCI Cash Award in Life Sciences, including Agriculture, with Dr. Jayaraman Gowrishankar, Scientist, Centre for Cellular & Molecular Biology, Hyderabad. Dr. Sharma's scientific contributions deal with basic studies on vector biology, genetics and control on the one hand and epidemiology and bioenvironmental control of malaria in different parts of the country on the other. Dr. Sharma is a recipient of Padma Shree award in 1992. The Cash Award of Rs.50,000 is presented to Dr. Sharma.

Sd/-

(Amit Mitra)

Secretary-General

New Delhi, October 24, 1998

Sd/-

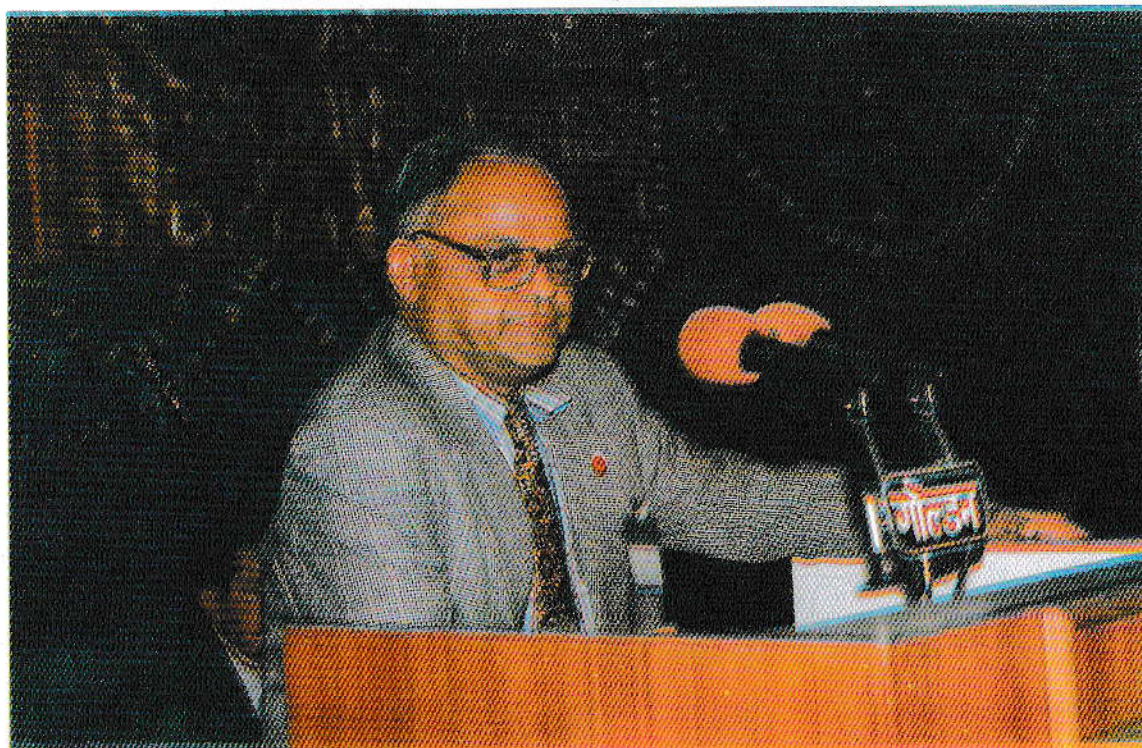
(K.K. Modi)

President



Inaugural Function :

(From L to R) Dr. Malhotra, Dr. Dash, Dr. Sharma, Dr. Datta, Dr. Swamy and Dr. Rao



Dr. V.P. Sharma delivering the Presidential address.



A section of participants with Dr. Datta, after the inaugural function.



A section of audience.

50 Travelling Fellowships to Young Scientists by AgrEvo

Mr. K.K. Unni, Executive Vice Chairman and Managing Director of AgrEvo India gave a keynote address on "Role of Agrochemical Industry in Food for all and Health for all", in the 4th Vectors and Vector Borne Symposium held in Gwalior from 18th to 20th February, 1999. During his lecture, he informed the need of Industry involvement in programme activities in order to take more responsibility towards the betterment of the community.

He made an announcement during his lecture for the award of 50 Fellowships to young Scientists to participate in the next Symposium to be held in Patiala during the year 2000. Applications may be sent to Dr. Namita Mahapatra, Joint Secretary of the Academy, Regional Medical Research Centre, Bhubaneswar-751 023. The award will be given subject to placement of funds by AgrEvo as announced by Mr. K.K. Unni.

NEW LIFE MEMBERS

1. **Dr. Bansal, S.K.**
Assistant Director
Desert Medicine Research Centre
New Pali Road
Jodhpur-342 005
2. **Dr. (Mrs.) Das, B.P.**
Deputy Director
Medical Entomology of
Vector Control,
National Institute of Communicable
Diseases,
22, Shamnath Marg
Delhi-110 054
3. **Dr. Das, P.**
Director
Regional Plant Resource Centre
Bhubaneswar
4. **Dr. Dhiman, Ramesh Chandra**
Assistant Director
Malaria Research Centre
22, Shamnath Marg,
Delhi-110 054
5. **Dr. Mohapatra, P.K.**
Senior Research Officer
Regional Medical Research Centre
(N.E. Region)
Dibrugarh-786 001
Assam
6. **Dr. Kaileysa Raj**
Emeritus Scientist (ICMR)
Dept. of Biochemistry, University
of Kerala, Trivandrum-695 581
7. **Dr. Mourya, D.T.**
Assistant Director
National Institute of Virology
20-A, Dr. Ambedkar Road
Pune-411 001
8. **Mr. Narayanaswamy, G.**
Senior Entomologist
A-11/1 Deani Quarters
New Nathan Road
Madurai-625 002
9. **Dr. Sampath, T.R.R.**
Research Scientist
Malaria Research Centre
Field Station E.D. Hospital Campus
Old Madras Road
Bangalore-560038
10. **Mr. Shovan Babu, M.**
Managing Partner
R.K. Pest Control Services
22/11 Balaji Nagar
Nellore-524 002
11. **Dr. Shri Prakash**
Scientist 'E', Deputy Director
Defence Research and
Development Establishment
Jhansi Road, Gwalior
12. **Dr. Singh Devinder**
Lecturer, Department of Zoology
Punjabi University
Patiala-147 002
13. **Dr. Srivastava, C.N.**
Reader
3/11, Prem Nagar
Dayal Bagh
Agra-282 005
14. **Surg. (Capt.) Tripathy, G.C.**
Joint Director
Medical Services (Health) &
Senior Advisor, P.S.M. (Navy)
Room No. 140/A
Sena Bhawan
NHQ, New Delhi-100 011
15. **Dr. Vir Singh, Karam**
Assistant Director
Desert Medicine Research Centre
Post Box 122, New Pali Road
Jodhpur-342 005
16. **Mr. Unni, K.K.**
Executive Vice Chairman &
Managing Director
AgrEvo India Ltd.
AgrEvo House
Sir M.V. Road, Andheri (East)
P.O. Box 9473
Mumbai-400 093

NATIONAL ACADEMY OF VECTOR BORNE DISEASES

(Registered under Societies of Registration Act XXI of 1860)

The National Academy of Vector Borne Diseases is a non-profit scientific/academic organisation established in 1994 in India with more than 100 eminent senior scientists from 20 different States of the country. The Academy itself came into existence as a spin off from the recommendations made by a panel of experts from both India and abroad during the proceedings of the **"First International Symposium on Vectors and Vector Borne Diseases"** held at the Regional Medical Research Centre, Bhubaneswar in November, 1994.

The National Academy of Vector Borne Diseases (Academy) is a registered pioneering organisation championing the cause of promotion of knowledge in vectors and vector borne diseases. The Academy published the proceedings of the International symposia on vectors and vector borne diseases in September, 1995 and 1997. The Academy also publishes a **"News Letter"** in every year which disseminates timely news of the Academy. The Academy also organises national/international symposia on Vectors and Vector Borne Diseases in alternate years. The Academy also co-sponsored the 11nd Global Meet on Parasitic Diseases held at Hyderabad during 17-22 August, 1997.

Membership is open to any individual interested in any aspect(s) of Vectors and Vector Borne Diseases (i.e., epidemiological, control, clinical, entomological, parasitological, experimental, sociological, economics and cost-benefits and cost-effectiveness of control methods, etc.). Following memberships are available :

Annual Member	:	Rs.100/- per annum (US \$ 10.00 for scientists abroad)
Student Member	:	Rs.50/- per annum (US \$ 5.00 for scientists abroad)
Life Member	:	Rs.500/- (at present), one time (US \$ 50.00 for scientists abroad)
Institutional Member	:	Rs.20,000/- (one time) (US \$ 2000.00 for institutions abroad)
Patron	:	By donating more than Rs.20,000/- or US \$ 2,000.00 for persons abroad.

Contact Address : Dr. R.K. Hazra, Treasurer, National Academy of Vector Borne Diseases, Regional Medical Research Centre, Bhubaneswar-751 016, India.

- The Life members of the Academy are requested to send their important achievements, if any, from time to time to Dr. (Mrs.) Namita Mahapatra, Joint Secretary, National Academy of Vector Borne Diseases, Regional Medical Research Centre, Bhubaneswar-751 016 for possible inclusion in the News Letter.
- Members are also requested to intimate about their change of address, if any, to Dr. Mahapatra in the above address.
- Mini review articles (2-4 typed pages) of good quality in any aspect of vector borne diseases are invited from members of the Academy for possible use in the News Letter.
- Members are requested to renew their Annual Membership before 31.12.1999.

NATIONAL ACADEMY OF VECTOR BORNE DISEASES

(Regd. No. 19767/199 of 1994-95 under Societies Registration Act XXI of 1860)

(Regional Medical Research Centre, Bhubaneswar - 751 016, India)

MEMBERSHIP FORM

(Kindly fill in the form and send it to Dr. A.P. Dash, Regional Medical Research Centre,
Bhubaneswar-751 016, Orissa, India)

Phone : (0674) 440444 • Fax : +91-674-444728 • E.mail : apdash@hotmail.com

1. Name :
 2. Designation :
 3. Date of Birth :
 4. Academic Qualification :
(Only Post-Graduate degrees)
 5. Address :
 - a. Present :
(For correspondence)
- Phone : Fax : Telex :
- b. Permanent :
6. Experience :
(Total No. of years)
- | | |
|------------|---|
| Research | : |
| Teaching | : |
| Management | : |

7. Type of Membership & Fee : (Fee sent by Draft/M.O.)

Membership	Period	Rs.	For Scientists abroad US \$
Student Member	Annually	50	10
Ordinary Member	Annually	100	20
Life Member	Life time	500	50
Institutional Member	Life time	20,000	2,000
Patron	Life time	By donating more than 20,000	By donating more than US \$ 2,000

The membership fees are likely to be enhanced from 1st April, 1999. The membership fee may be sent by bank draft (drawn in favour of Treasurer, National Academy of Vector Borne Diseases, Bhubaneswar) or M.O. to Dr. R.K. Hazra, Treasurer, National Academy of Vector Borne Diseases, Regional Medical Research Centre, Bhubaneswar-751 016, Orissa, India.

- Sl. No. 2,3,4 and 6 are not applicable for institutions.

Place :

Date :

Signature