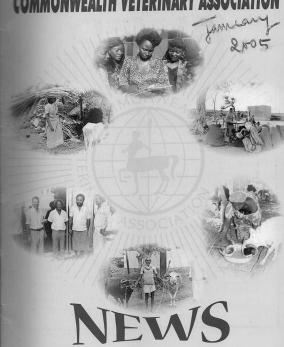
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COMMONWEALTH VETERINARY ASSOCIATION NEWS

Volume 20 July 2004 No. 2 Editorial Board CONTENTS Dr. Robin Yarrow Page Dr. Bert Stevenson President's Column Dr. W.J. Prvor Dr. (Mrs.) HMSP Herath Book & Journal Programme Dr Collin Boyle Dr. W.O. Ogara CVA Study Fund Dr. Richard D. Suu-Ire Dr. Charalambos Kakoivannis Regional News Asia 5 Australasia/Oceania 14 Published and Printed by Canada Caribbean 18 Mrs. Shireen Rahman East, Central and Southern Africa 20 Intervet Publishers West Africa 123, 7th B Main Road 24 4th Block (West), Javanagar U.K. Mediterranean 25 Bangalore 560011 INDIA Abstracts General Articles In Association With The Livestock Sector in the Pacific Islands-Commonwealth Veterinary Challenges and Opportunities -Association Robin Yarrow 28 Cultural Factors Affecting Animal Health And Production In Papua New Guinea -Advertising Enquiries Gibasa B. Asiba 33 President Dolphin Harvesting In The Solomon Islands-A Clash Of Cultures -Baddley Ashton Anita 38 Layout & Typeset by How To Read A Pet Food Label -Mr. K.K. Anub Linda Fleeman 42 #379, 12th 'A' Main, Sector-A Calendar of Events 44 Yelahanka Newtown. Bangalore 560064, INDIA. Editor Dr. S. Abdul Rahman



President's Column

The second half of 2004 will be one of the busiest periods ever for the CVA, with three Regional Conferences to be staged—in Lusaka, Zambia for SCS Africa from 4th to 6th Aquests, in Las, Payun New Guinner of Australassia (Oceania from 28th October to 1st November and in Port of Spain, 'Drinddal and Tobago from 8th to 1sth November. These medium CVA Regional Conferences have never before been had so close together. These meetings will off-cause means considerable work and effort by the respective RRs, organisting committees

and associates. They will also impact heavily on our 2004-5 budget and, in the process, on our hard-working Treasurer.

These conferences are a key element of our orth programme for several reasons. Firstly, they provide a conderful opportunity for reterinating is some of whom will be attending their imaginared CVA conference, to magain on a centificing programme designed within the region to address issues of current and emerging relevance, with special reference to their area. The updating and capacity-building which this facilitates is extremely beneficial. Secondly, the chance to network informally with professional collapses and to develop both use priendships and expresentions is any any other programments of the professional control and the conferences enable Councillors to next as regional council, an event that occurs only once every three years, to review work-bup arrowers and allocus prierities as well as possible future activities.

The Executive Committee will be meeting in Cape Toom in late July, invanediately prior to the annual conference of the Seath African Veterium; Association. Key agenda tens include the 2004-5 budget, the CVA constitution and near project proposals. Explain divocation, the Executive Committee with then artend the SAVA Conference. This will constitute an excellent apportunity for CVA awareness-building and for exposure as well as networking for the members of the Executive Committee. The CVAP President and Treasurer, together with the Regional Representative, will then ano not to Lusska to attend the ECS Africa Regional Conference.

The recent-Australian Veterinary Conference in Canherra, May 2004, use a nulseione in that it featured a CVA scenario in the scientific programme. Veterinarians from three Pacific Islands delivered papers and the session greathy increased asserness within the AVA membership of the special veterinary issues and needs of the vast Oceania subregion. The CVA is most grateful for the generous accommodation by the AVA which enabled this participation in their conference and hopes this new intitative utill continue.

The CVA functions through the committed voluntary efforts of junearous people and this collective contribution is fundamental to our mission. I wish therefore to recognize the continuing valuable work undertaken so sulfingly be many. There is much that this form of voluntary endeavour can achieve and I look forward to exchanging views and ideas with many of you in the months should on how we can build on this for the future. The CVA diso believes that it is most important for one developed member countries to be better informed about the range of activities which are undertaken.

 Max_1 also extend good wishes to the organizers of each of the forthcoming Regional Conferences for excellent meetings with successful outcomes.

July, 2004

Robin Yarrow President

The Principal Sponsor of Commonwealth Veterinary Association is

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JOURNALS, BOOK







AND

AUDIO-VISUAL PROGRAMM

Contact: Dr. J.B. Derbyshire, Coordinator, CVA Book Programme, Department of Pathobiology Ontario Veterinary College, University of Guelph, Guelph, Ontario, Canada N1G 2W1. E-mail: iderbysh@uoquelph.ca

Dr. Jeff Cave, CVA Councillor, Australia, Department of Primary Industries, 1 McKoy Street Wodonga, Victoria 3689, Australia E-mail: ieff.cave@dpi.vic.gov.au

CVA Book Programme

The CVA Book Programme is coordinated from the Ontario Veterinary College at the University of Guelph by Dr. Brian Derbyshire, assisted by Mr. Jim Brett, the College Librarian. A depot is also maintained in Australia by Dr. Jeff Cave. Books are donated by veterinarians in Canada and Australia, and they are available for distribution free of charge to graduate veterinarians, but not veterinary students, in CVA member countries in good standing. Priority is given to requests from institutional Libraries, such as veterinary schools and veterinary associations, and requests from individuals are met as funds permit. Because of budgetary constraints and increasing mailing costs, the number of books which can be shipped is normally restricted to up to 30 titles for institutions, and up to 5 titles for individual veterinarians in any one year. Requests for books should indicate the required subject areas and/or preferred titles where possible and they should include the mailing address to which the books should be sent. The latter should be abbreviated as much as possible in order that it may be accommodated in the limited space provided on the customs declaration. It is suggested that those wishing to submit a request should first obtain a copy of the current inventories of books available by contacting, preferably by e-mail, either Dr. Derbyshire or Dr. Cave (see above for contact information). Shipments are made by surface mail, and may take several months to reach their destination. The recipients are requested to acknowledge the safe arrival of the books.

During the period 2003-2004, 18 shipments, comprising 307 books, were sent from Guelph to 8 Commonwealth countries as follows: Nigeria (3 shipments: 135 books), Pakistan (7 shipments; 100 books), Sri Lanka (2 shipments; 48 books), Fiji (2 shipments: 10 books), Barbados (1 shipment; 5 books), India (1 shipment; 5 books), Kenya (1 shipment; 2 books) and Zambia (1 shipment; 1 book). Fleven of the shipments were to institutions, and 7 were to individual practicing veterinarians. The number of shipments was almost double that in 2002-2003, and almost three times as many books were shipped. The increased demand for books came mainly from Nigeria. following that country's readmission to the CVA, and from Pakistan and Sri Lanka. In addition, books and surgical instruments were shipped from the Australian depot to Fiii.

The current inventory at Guelph comprises just over 500 titles and close to 1,000 volumes, while the Australian denot holds over 200 volumes. Most areas of veterinary medicine are covered. These include anatomy, anesthesia, animal science, avian, fish laboratory animal & wildlife medicine, biochemistry & biology, equine medicine & surgery, farm animal medicine & surgery, histology & hematology, immunology, microbiology, parasitology, anatomic & clinical pathology, pharmacology, physiology, public health, zoonoses & epidemiology, radiology, small animal medicine & surgery, theriogenology and toxicology, as well as miscellaneous titles such as veterinary dictionaries and indexes. The most extensive stocks are in small animal medicine and surgery, in which the greatest number of donations are received. Most of the books were published during the last 20 years: older editions are discarded each year.

June. 2004

J.B. Derbyshire Coordinator CVA Book Programme

CVA STUDY FUND

The Fund

This fund has been established by the Commonwealth Veterinary Association (CVA) in conjunction with the Commonwealth Foundation to honour the contributions made by Mr. John Anderson and Dr. L.P.E. Choquette in establishing and promoting the activities of the Commonwealth Veterinary Association.

Financial support to match the funds contributed by the Commonwealth Veterinary Association and the several national and local veterinary associations throughout the Commonwealth may be provided by the Commonwealth Equipation.

1. Purpose

Its purpose is to provide financial assistance to:

- Veterinarians who are members in good standing of their respective national associations to undertake short term study visit to schools, institutions or to undertake short term study courses in veterinary medicine, animal production or related areas in other Commonwealth countries.
- Animal Health Assistants recommended by the appropriate CVA Council Member and Regional Representative, to undergo further short-term training at a school or institution in another Commonwealth country.
 - It is expected that such visits will promote professional and para-professional contexts and provide grantese with new knowledge and expertite in their respective fields of interest. Study proposals which will directly benefit the rural poor and disadvantaged will receive sympathetic consideration. All proposals will be expected to describe how they will benefit the home institution, veterinary organization and community. The visit is also expected to a study of the common common

2. Guidelines

- Grants will be limited to persons with field experience and not holding senior positions.
- The awards are not normally available for University academic or research staff.
- Preference will be given to related regions with resouth-south movements being encouraged. In exceptional cases, visits to institutions outside the regions qualifying under south-south arrangement will be considered as long as the cost of the visit does not exceed the allocated fund ward flaws \$30001, by the President grantees may receive training in a non-Commonwealth country within that Region.
- The study period should be preferably between 2-3 weeks.
 Awards will normally be distributed equally amongst Regions, however, on occasion, the President may authorize additional awards to a particular Region in any one year.
- The study visits will be financed at a maximum of Aus \$ 3000 including a prepaid air ticket for the least expensive and most direct route.
- Grants are provided only for periods of concentrated study or training on a particular topic or activity and cannot be made for attendance at conferences,

- meetings etc., nor to underwrite a tour of visits to a number of institutions.
- A report must be submitted to the Secretary CVA within three months of the completion of the study visit. At the completion of the study visit, at the completion of the study visit, the participant must receive a letter of release, which should clearly indicate duration of stay, and satisfactory completion of course. The letter should also confirm that at the time of departure, the participants have not lett any debts unsettled. This participant have not lett any debts unsettled. This report is not the state of the stat
- It will be necessary for the host institution to agree to assist in arranging suitable accommodation etc. affordable by the applicant.
- 10. Grantees will be expected to give one or two lectures at the host institution or veterinary association on aspects of animal health and production activities in their home country. These lectures should emphasize how their studies in the host country will benefit the rural poor and disadvantaged as well as their impact upon the environment.
- 11. These loctures and the discussions of topics, both professional and social, with the staff of the host institution or veterinary association will serve to further the aims and objectives of the Commonwealth Veterinary Association.

3. Applications

- There is a set Study Application Form/Application. Forms are available from the CVA Secretary, or through the CVA Website.
- Applications should be submitted to the appropriate Regional Representative for processing, at least 6 months prior to the proposal visit.
- iii) The applicants should provide the following:
- a) A complete curriculum vitae to the Regional Representative
- b) Two passport size photographs
- c) A letter of acceptance from the person who will supervise the study program in the host country
- d) Evidence that the study has the support of his/ her home institution or national association

4. Administration

- The Study Application Form with supporting documents must be sent to the appropriate Regional Representative
 The Regional Representative will review the
- The Regional Representative will review the application and make a recommendation to the Secretary, CVA.
- The Secretary, CVA will make a recommendation to the CVA President, who will make the final decision.
 The Secretary, CVA will then inform the Regional
- iv) The Secretary, CVA will then inform the Regiona Representative who will inform the candidate.

Last date of submission of request to Council Members / Reg. Rep. is 30° Oct. 2004. RRs to submit their recommendations before 30° Nov. 2004 to the Secretary, CVA.

Asia

Sri Lanka News from Sri Lanka

A. CVA Book Programme



The Dean of Veterinary Faculty and Animal Science Dr. H. Abeygunawardena (right) receiving the Books from Dr. Herath

Faculty of Veterinary Medicine and Animal Science and the Department of Animal Production and Health, University of Peradeniya received a set of valuable books presented under the



The Director General of Animal Production and Health Department Dr. S.K. Amarasekara acknowledging a set of books from CVA Book Programme

Commonwealth Veterinary Association Book Programme through the CVA Councillor Dr. H.M.S.P. Herath.

Veterinarians and the Veterinary undergraduates in Sri Lanka thank the CVA, especially Dr. J.B. Derbyshire, Coordinator, CVA Book & Journal Programme, for his help in sending the backets of thanks.

R Research

The Veterinary Research Institute, the research division of Department of Animal Production and Health held the Annual Review 2003 at the Plant Genetic Resource Centre at Gannova, Sri Lanks on 10th of February 2004. Findings of the research done in the past on Animal breading, Animal Nutrition, Bacteriology, Parasitology, Pathology, Virology, Patuse and Fodder and Farming systems

C. SLVA Scientific Programme



Dr. Sylvain Comte elaborating the characteristics of Classical Infectious Bursal Disease

Sri Lanka Veterinary Association gave priority to infectious Bursal Disease (Gamboro) in January 2004. Series of seminars were conducted. Dr. Sylvain Comts, Technical Manager(JEVA Animal Health Limited who came to Sri Lanka on an invitation of Hennas Company presented a paper on "Advanced Immunological Studies in Domestic Chicken with Special Reference to Infectious Bursal Disease".

Research is what Im doing when I don't know what Im doing

~ Wernher Von Braun (1912-1977)

Annual Convention and Scientific Sessions of Sri Lanka Veterinary Association

The 56th Annual Convention and the Scientific Sessions of the Sit Lanks Vertninary Association was held at the Plant Genetic Resources Contro. Gannoruwa, Perdadniya on May 14th and 15th, 2004. The Annual General Meeting of the Association was also held on the first day at the same venue and the new committee for the year 2004/2005 was appointed.



Ceremonial opening of the 56th Annual Convention of SLVA

The opening ceremony was on May 14th with the Minister of Agriculture, Irrigation and Livestock Mr. Anura Kumara Dissanayake as the Chief Guest. High Commissioner for India in Sri Lanka Mr. Nirupam Sen was the Guest of Honour along with the Deputy Minister of Livestock Mr. Bimal Ratnayake and the Asst. Commissioner of India Mr. R. Malhothra.



At the Opening Ceremony
L-R: Dr. AVP Dharmasvardena, Dr. Herath,
Hon. Anura Kumara Dissanayake, Hon. Bimal Ratnayake
and Dr. H.P. Premasiri, President SIVA

The Minister of Agriculture, Irrigation and Livestock Anura Kumara Dissanayake stressed in his address at the inaugural sessions that the steps will be taken to boost local production and encourage dairy farming and livestock breeding.



Indian High Commissioner Mr. Nirupam Sen, Dr. Herath, Dr. Wijaya Jayathilaka and Dr. SLA Daniel

The Indian High Commissioner in his address mentioned that both Indian and SI Lanks have a lord things in common and practically share the same interests. He said that India would extend its fullers support for Sri Lanks to improve its Agriculture and milk production, as India has experienced a "White Revolution" in milk production. India will also help in setting up of milk collecting centres. India has already supplied vaccines and snake venom to save the lives of many who die of snake bits in the villages.

President of the Sri Lanka Veterinary Association, Mrs. Herath in her presidential address add that friendship with India was a long standing one. India had helped Sri Lanks in the agriculture sector. She said that livestock from India had been imported and had received expert advice from experts in India. She said that Tour professionals experts in India. She said that Tour professionals have been seen to be supported to the section of the section of

Dr. Herath said the Sri Lanka Veterinary Association the then Ceylon Veterinary Association was established in 1940 with its centre of activity in Colombo. Pr. A. Little, a fortish veterinarian was the first President of the association and Dr. Hector C. Perer was the first the profession. She said intermetted as a doyen of the profession. She said intermetted was the profession of the p



Dr. Siloshini Gnanandarajah receiving the award for the best presentation on Animal Production from the Vice Chancellor Prof. Kapila Gunawardena



Dr. Herath presenting the 50th Volume of SLVJ to the Prof. Kapila Gunasekera

enjoying the benefits under the CVA Study Fund and CVA Book Programme. The association has initiated programmes to improve the relationship between the profession and the public and has conducted seminars and campaigns on many zoonotic diseases including Rabies, Avian Influenza (Bird Flu) etc.

Dr. Herath gave a detailed account of the problems facing the veterinary profession as well as the farmers due to constraints in the implementation of proper livestock policies. She stressed the need to exploit opportunities for interesting the property allevisor through promotion of safe and efficient production, processing and marketing of livestock production.

Greetings from the President, Secretary and the Treasurer of Commonwealth Veterinary Association were conveyed to the veterinary professionals by Dr. Hersth



At the Prof. S.T. Fernando Memorial Oration L-R: Dr. D.H.A. Subhasinghe, Dr. J.A. de S. Siriwardena Dr. Herath. Prof. Kaulta Gunasekera and Prof. D.J. Weilrams



Dr. Herath presenting the All Island Veterinarians Guide to Hon. Minister of Agriculture

The formal opening ceremony was followed by a theme seminar "Veterinary Profession and the National Economy" which addressed the contribution of veterinary professionals in the National Economy. The speakers included a nanel of eminent scientists Dr. T. Abevsekera from the World Bank, Dr. Vijaya Jayatilake from the Faculty of Agriculture and Dr. S.L.A. Daniel from the Ministry of Community Development, Estate Infrastructure. They dealt with the role of livestock sector in Sri Lanka, agriculture development, role of professionals in socioeconomic development and the Role of Veterinary professionals in National Economic Development, Dr. Daniel in his speech on "Role of Veterinary Professionals in Developing Economy of Sri Lanka" stressed the importance of three sectors of the Sri Lankan economy, namely the agriculture, tourism and international trade.

at the Fellowship dinner.

CVA Regional News Asia -The evening programme on May 14th included the Association Dinner, the Prof. S.T. Fernando Memorial Oration, felicitation of senior professionals Drs. J.A. De S. Siriwardena and D.H.A. Subhasinghe for their outstanding services rendered to the profession. Prof. S.S.E. Ranawana and Prof. M.U. Jayasekara read the citation for Dr. Siriwardena and Dr. Subhasinghe respectively. It was a very special day for the veterinary professionals as the Convention coincided with the presentation of 50th volume of the Sri Lanka Veterinary Journal. The services of the editor of SLVJ, Prof. R.

Sivakanesan were also appreciated. New President for 2004/2005 Dr. H.P. Premasiri was inducted ceremonially

The Oration took place at the Hotel Tourmaline in Bahirawakande, Kandy and was delivered by Prof. D.J. Welgama, Merit Professor of Parasitology. Faculty of Medicine of the University of Peradeniya. The title of the presentation was "Fifty years of Veterinary Parasitology in Sri Lanka and Noteworthy Achievements". The Vice Chancellor of the University of Peradeniva Prof. Kapila Gunasekera was the Guest of Honour. The awards for the best performance of Veterinary Public Health at the 3rd BVSc Examination, the best publication in SLVJ 49th issue and the best oral presentations made at the several sessions of 55th Annual Scientific Sessions were presented by the Vice Chancellor.

The second day started with Clinical presentations followed by the presentations on Wild Life, Livestock Production, Animal Health and Poultry Production, There were also poster presentations.

The following were the elected as office bearers for the year 2004-2005.

President: Dr H.P. Premasiri

Prof R. Sivakanesan President Elect: Vice Presidents: Dr A.R. Mohamed

Dr II S Rendere Secretary: Dr Tissa Javathilaka

Committee Members

Dr (Ms) NWKP Wijewantha Dr CP Ihalagedera Dr SR Javasinghe

Dr B.A.D.A.S Javathilake

Dr M M Hanifa Dr J Amarakone Dr MDN Jayaweera

Ex-Officio

Treasurer:

Dr (Mrs) HMSP Herath Dr Vinula Dharmawardane

Dr (Ms) KACHA Kothalawala

CVA News July 2004

Editor Prof R. Sivakanesan Company Secretary Ms. Sharma Nathanielsz

> - Dr (Mrs) HMSP Herath Regional Representative



Prof. D.J. Weilgama who presented the Prof. S.T. Fernando Memorial Oration L-R: Prof. Kapila Gunasekera, Prof. R. Sivakanesan. Dr. Herath and Prof. D.J. Weilgama



Prof. Kapila Gunawardena, Vice Chancellor presenting a token of appreciation to Dr. DHA Subhasinohe and Dr. JA de S. Siriwardena (seated)

Indian Veterinary Association News

Elections of office bearers of Indian Veterinary Association are still pending as the matter is in court. The High Court of Tamil Nadu has appointed a senior advocate to conduct the elections. Meanwhile, the editor of the Indian Veterinary Journal Dr. V.D. Padmanabhan has resigned and Dr. K.R. Parthasarathy has been nominated as the new editor of the journal.

Pakistan

CVA Study Fund Report

Report by Dr Isma Amir, Pakistan

It was my privilege to receive the 2003-2004 CVA Study Fund Award to visit Branglanes, India from March 29 to April 8, 2004. The purpose of my visit was to compare the field and laboratory working conditions with reference to various livestock diseases with special emphasis on parastic diseases. This was my first valie to India and no doubt that it was very interesting and knowledgeable. During my stay, I had the opportunity to visit different Livestock institutions, telenging to Covernment and private sector in and around Branglane.

My visit started with the Veterinary University, Hebbal, Bangalore where, I got training about the Different Approaches in the Diagnosis and Control of Parasitic Diseases of Domestic Animals*. It included

- a. The Collection of Samples and their Shipment
- b. Macroscopic Examination
- c. Microscopic Examination
- d. Immunological Techniques
- e. Interpretation of Results
- f. Treatment
- g. Control and Prophylaxis



Dr Isma with Prof. Muniyappa in the Microbiology Department

I was provided facilities to run immunological tests for various parasitic diseases. Theses tests included Dot Elisa, Protein Estimation, Western Blotting, Latex Agglutination and Counter current Immunoelectrophoresis. Not only I got the opportunity to run various tests but was also emphasized and trained for the interpretation of results.



Dr Isma (left) with Dr Puttalakshmamma (centre) and Dr Girija Prem (right), Staff of the Department of Parasitology

I was also briefed about various strategies for the use of anthelimities and to overcome anthelimitie resistance. I treated many cases of Schistosomiasis in Pakistan but mostly there was a religence and if the dose increased the animal died. When I discussed my problem I was told that it was the same here. However, Prazequantal preparations were safe and 100% effective. Will try it in the same manner now in my country. This is just an example of many tips which I got for treatment and control of prassites.

In the University, I was able to practically execute various tests which has boosted my confidence. Now I am not only in a position to use them in my laboratory in Pakistan, but also able to train my other colleagues in the department.

Regarding the epidemiology I was explained that there are 154 parameters, which are useful for the forecasting of various diseases or almost all. I was also informed that computer modelling for macroparasites is of two types i.e. Denaity model and Prevalence model. These two models can further statistically be analysed explanatory model analysis and time series model analysis and time series model analysis. I would be concluded to the control of the conclusion.

While visiting the various Departments of the University, I found that India and Pakistan have similarities in the pattern of diseases and the way these are tackled.

During my visit to Department of Poultry Science, I had the opportunity to see Giriraja and Girirani birds. These are the strains bred to resemble local fowls. Sturdy, and resistant, they can easily acclimatize themselves to any region and weather. They can survive like any native stock, except for the routine Ranikhet (New Castle Disease), no prior vaccination is required. I visited the Karnataka Milk Federation (KMF) Mega Dairy Project. The whole dairy unit is computerized. Not a single drop of milk is wasted here and is hygienically packed.

During my visit to the Turf Club, Bangalore, I was able to see the recent sophisticated equipments for the treatment of sick and injured horses and the underground stables which was very unique.



At the Equine Clinic

I also visited Bannerghatta National Park and Zoo.
There I observed animals in their natural environment
and studied the feeding and treatment of wild animals.

At the end I would like to pay tribute to the CVA for sponsoring this visit, through which I had the opportunity to compare different working environments. This has also resulted in my learning/refreshing various techniques, which will be quite useful in my future, and I will be able to use them for the benefit of investock holders in Pakistan.

Pleasant weather, beautiful city and loving and hard working people who are very fond of cricket are and will always be fresh in my memory.

Poultry Industry of Pakistan Devastated by Rumours of Bird Flu

Sensational covering of Bird Flu scare by the major national news papers of Pakistan caused a major set back to poultry industry as the general public stopped eating poultry meat and eggs. This resulted in a sharp decline in prices, well below cost of production and even in some areas farmers had to dispose their flocks free of cost. This price crisis carried on for 6 weeks and as a result many poultry farms were closed as farmers stopped buying day old chicks. Poultry breeding Companies in Pakistan were forced to drown the chicks live or destroy their hatches and at the end breeder flocks were force moulted. Billions of rupees were drained. Pakistan Poultry Association struggled very hard to nullify the impression created by the press, held rallies, press conferences and other promotional measures in all the major cities of Pakistan. Due to

premature culling and moulting of breeder flocks has resulted in severe shortage of day old chicks, thus price of poultry meat has reached new peaks.

Nutrition Conference

Nutritionist Association of Palisten is holding a two days Conference at Pearl Continental Host Lahove, Pakistan from 1st 10 2nd December 2004. Many speakers from Palistran and shored will present latest advances in nutritional sciences during this conference. Governor of Punjaw will inaugurate the conference. As Governor of Punjaw will inaugurate the conference. As various antional and international companies will display their products. More than 500 delegates are excepted to attend this Conference.

PVMA Annual Conference

Pakistan Veterinary Medical Association Punjab will hold its annual conference during first week of October this year in Lahore. A committee has been formed to finalize the details of the conference, Chief Minister of Punjab is expected to insugurate the conference where more than 600 veterinarians from all over Punjab will attend the conference.

CVA Asian Regional Conference in Pakistan

The CVA Asian Regional Conference will be held at Lahore, Pakistan during the 1st week of September 2005.

Dr. Muhammad Aslam, a prominent poultry industrialist and veterinarian has agreed to be the Chairman of the Conference.

- Dr. AA Ramzee CVA Councillor, Pakistan

Commonwealth revokes Pakistan suspension

The Commonwealth on Saturday, 22 May 2004 revoked the suspension of Pakistan from the grouping, welcoming the progress made by the country in restoration of democracy. A decision in this regard was taken at the two-day meeting of the Commonwealth Ministerial Action Group (CMAG). The CMAG noted the adoption by the Pakistan Parliament of the Legal Framework Order (LFO), this briming in into the country's Constitution.

Deccan Herald, May 24, 2004

India

Rabies Survey in India - Joint WHO/APCRI/CVA Project

The WHO Steering Committee for Rabies Control in Asis, at its meeting in June 2002, recommended a reassessment of the public health burden of rables in hold, since the seatment efigure of \$3,000 deaths per WHO Reported Office for South East Asis, in consultation with WHO India office, proposed Association for Prevention and Control of Rables in India IAPCRII as a surable agency to conduct the study. APCRII in turn sproached CVA through its Secretary Dr. Committee is conduct the vertical properties of the conduct the vertical page 200 committee to conduct the vertical page 200

APCRI and CVA prepared a drift protocol of the study, with the main objective to assess the rables such view to main objective to assess the rables providing additional information on relokes, such as animal tipe rate per 100,000 population, post exposure treatment, availability and costs and some information on animal rables. A protocol was prepared jointly by APCRI and CVA for WHO evaluation. An agreement was reached on the methodology of a multicentric survey involving 20 Medical Colleges and as many Veteriary colleges, distributed all over India. A meeting of the Principal investigator, (Pal was organized during this protocol of the protocol of the protocol of protocol of the protocol of protoc

The results of the survey put the annual human rables deaths in India at 18,000-20,000 deaths, a figure which is less than the previously estimated one, but the incidence of animal bites in the surveyed population is very high. The findings of the survey were reviewed by a core group of experts from NICD and WHO.

CONCLUSIONS

 Human Rables is adennic throughout the mainland and only the islands of Andama & Nicobar and Lakshadveep are rables free. Majority of the human ables deaths occurred in adults, males and in poor/ low income group. The principal animal responsible for rables transmission was dog. The use of rables vaccination was low and that of rables immunopolobilin was nealibeally assets.

Majority of human rabies deaths occurred within six norths of log bite. The limbs and hands were the most common sites of bite. About half of the human rabies cases sought hospitalization and about northird died in the hospital. The indigenous treatment was a popularly sought after remedy. The diagnosis of human rabies was mostly on clinicopelideniological basis and hence were mostly

"probable cases" and none had laboratory confirmation of diagnosis.

The incidence of animal bite is high and is due to a high dog: man ratio. The majority of animal bite victims belonged to lower economic class and the use of anti-rabies vaccines was low.

The presence and menace of stray dogs was high. The pet dog care and management practices were not satisfactory. The municipal licensing of pet dogst was inadequate. Overall the situation was slightly better in urban areas as compared to rural areas.

 The most common animal reservoirs of rabies based on laboratory evidence were dogs, cattle, goats, cats and pigs and among the wild animals were mongoose and jackel.

RECOMMENDATIONS

Based on the results of the survey and the final conclusions drawn the following recommendations are made.

- The coverage and usage of modern rabies vaccines and rabies immunoglobulins needs to be improved.
 There is an urgent need to phase out NTV and phase in cost-effective intradermal TCV to prevent human rabies deaths.
- A census of dogs or a scientific estimation of dog population is needed. There is an urgent need to tackle the menace of stray dog population on a wer footing. More effective municipal licensing of pet dogs and awareness campaigns for better and responsible dog care and management practices is needed.
- Efforts are needed to improve hospital care and management of human rabies patients and a beginning to be made for laboratory confirmation of rabies in a few centres.
- Similarly on the veterinary side there is a need to upgrade the facility of rabies diagnosis by FAT which is a more sensitive and specific test than Negri body examination.
- There is an urgent need to introduce effective monitoring of entry of dogs/cats into the islands of Andamans and Lakshadweep at the airports and seaports and to ensure a proper surveillance of rabies in animals.

For initiating all the above measures and for a concerted and coordinated action a "National Rabies Elimination Programme" must be launched involving medical, veterinary and other related departments.

- Assessing Burden of Rabies in India

Bangladesh

Scientific Seminar and Annual General Meeting of Bangladesh Veterinary Association

The Bangladesh Veterinary Association held its Annual General Neeting and Scientific Seminar at Dhaka on 4th May 2004. Dr Syed Abdul Khader, Presidant, BVA presided over the session. 900 veterinarians from different ministries and organisations attended the seminar. Mr. Barkatullah Bhulu, Advisor for the Ministry of Commerce, Government of Engladesh was the Chief Quest. Mr. Quberoment of Engladesh was the Chief Quest. Mr. Quberoment of Engladesh vas the Chief Quest. Mr. Quberoment of Engladesh vas the Chief Quest. Mr. Quberoment of Engladesh vas the Chief Quest of Dr. Salebuddin Mahmod, Director General, Department of Livestock Services were the Special Quests.



Mr. Barkatullah delivering his speech at the inauguration



At the Technical Session

L-R: Priya Mohandas, Nazir Ahmed, Sultan Mohiuddin and
Md. Ahvanus aman

The theme of the Scientific Sominar was "Role of Veteriansy Services in Poverty Reduction and Employment Generation through Livestock Production". The keynote address was presented by Prof. Priya Mohandas of Mymensingh Agricultural Mohandas of Mymensingh Agricultural Mohandas of Mymensingh Agricultural Mohandas of Mymensingh Control Programment of Prof. Priya Mohandas of Mymensingh Control Programment Mohandas of Mymensingh Control Programment Managar of Artis Multipurpose Farms.

Dr. Sultan Mohiuddin, CVA Councillor Bangladesh was the seminar Convenor. Various eminent veterinarians and experts participated in the seminar.

New Minister appointed



Abdulla-AL Noman (centre) being felicitated by BVA

Mr. Abdullah-AL Noman was appointed as the Minter of Fisheries and Livestock of the Government of Bangladesh on May 8th, 2004, Mr. Abdullah has been associated earlier with the Ministry and was chiefly responsible for the starting of two new government veterinary colleges in Sylvhet and Chittagong.

National Seminar and Workshop on Veterinary Education and Research, 4-6 September 2003

A workshop on "Veterinary Education in Bangladesh" was organised on 4th September 2003 by the Bangladesh Veterinary Council.

Dr. N.C. Debnath, President of Bangladesh Veririnary Couloid and Dean of Chittagong Veterinary Couloid presided over the session. Mr. U.A.S. Enuyan, Minister of State for Fisheries and Livestock was the Child Guas and State of Child C



L-R: Drs NC Debnath, Sultan Mohiuddin, Nuruddin Ahmed, Inayet Hussain and
Manoi Mohan Sen

A committee to formulate a uniform course curriculum on veterinary education was constituted with the following members.

Dr. Nazir Ahmed Chairman Ev. Director-General of DIS Prof Jalaluddin Ahmed Dent. Surgery & Obstetrics, BAU Member Prof. Md Zahurul Karim Dent of Parasitology, BAU Dr. Mohd, Sultan Mohiuddin Director DLS Prof. Md. Nazrul Islam Sulhet Govt Veterinary College Dr. Paritosh Kumar Biswas Chittagong Goyt, Veterinary College Coln Dr Md Amminul Hague Asst. Director, RV&F, AHQ, Dacca Cant

On 6th September 2003, a Midterm Workshop of the Bangladesh Society for Veterinary Education and Research was held at Sylhet Government Veterinary College, Sylhet. The theme of the workshop was "Preventive Veterinary Services".

Hon'ble Minister of State for Fisheries and Livestock Mr. U.A.S. Bhuiyan inaugurated the workshop. The keynote address was presented by Dr. Abul Kalam Azad, Joint Secretary, BSVER. Prof. Mosleh Uddin Ahmed, Vice Chancellor, Shahjalal Science and Technology University, Sylhet was the Chief Guest and Prof Manoj Mohan Sen, President of the Society presided over the inaugural session. A technical session was also held which was chaired by



Address by Mr. U.A.S. Bhuivan

Dr Sultan Mohiuddin, Director, Department of Livestock Services and CVA Councillor, Bangladesh. The other participants in the technical session included Prof. Nuruddin Ahmed and Dr Inayet Hussain.

It is dangerous to be sincere unless you are also stupid

~ George Bernard Shaw (1856-1950)

Australasia/Oceania

Papua New Guinea

Papua New Guinea Revisited

Jeff Cave

CVA Councillor, Australia Department of Primary Industries I, McKoy Street, Wodonga, Victoria 3689

With the Australasia/Oceania Regional CVA Conference being scheduled in Papua New Guinea in October and the often adverse perceptions and misconceptions of the country I felt readers may be interested in a travelogue of my return last year to "the land of the unexpected".



Leff Cave with the vill

For me it was my first time back in PNG having lived near Vanimo on the North West coast for two years from 1993 to 1995. Vanimo is a picturesque, friendly location with a small country town feel. In Vanimo everybody seems to know each other. I spent the first few days in accommodation made out of bush materials built next to the beach. For me being in Vanimo was a chance to catch up with a lot of old friends.

After a few days around Vanimo I then flew to Telefomin in the Sandaun Highlands in a Missionary Aviation Fellowship (MAF) twin otter for a weeks bushwalking and staying in villages. On the way I landed on a couple of PNG's infamous airstrips including Tumolbil which is built on a spur at the end of a valley. I remembered it from before as being one of the more "exciting" airstrips to land on in PNG.

Telefomin is about 5000 feet above sea level making the temperature much more pleasant than the coast for bushwalking. The next few days were the



A villager selling her wares

most memorable of the trip. The walking was hard with a lot of up and down slippery tracks with narrow logs crossing rivers. I have never sweated so much. The reward was the brilliant scenery and staying in traditional villages with people who rarely meet outsiders. As I came into each village everybody would want to shake my hand and say "Apinun". At night we'd sit around an indoor fire and tell stories and eat an enormous meal of rice, tinned meat, sweet potato, modes and greens - I supplied the trade store goods and the villagers provided the vegetables. The anguages spoken were a mixture of the local dialect, may aid an and English.

After a week in the Teleformin district it was time to ecturn to Vanimo. This included a six hour wait at Teleformin airstrip for a plane that had been delayed due to a flat tyre. This was just another part of the PNG I finished my trip in Port Moresby and met my former work colleague and now CVA councillor for PNG, Dr Ilagi Puana. Port Moresby has a bad reputation for problems associated with law and order but I have never had any trouble there nor in any other part of the country.

Readers should seriously consider attending this year's Australasia / Oceania regional CVA conference in PNG. During their stay they should also see some of this friendly, diverse, scenic and often misunderstood country.

Australia

CVA contributes to AVA Conference

In a bid to ensure that CVA members in developed countries easily as the control of the control

Accordingly speakers were selected to address both the special issue of cultural factors effecting livestock production in the Pacific Islands and the special situation of the use of dolphins in the Solomon Island communities.

The latter had been the subject of recent televised programmes seen in the Australasian region and CVA was anxious that a correctly informed presentation

provide balance to these programmes. CVA was aware that Pacific islanders who used dolphins in a variety of ways or treated the animals as sacred did not take kindly to westerners in their air-conditioned offices far away attempting to pressure them to change their cultural practices which were often part of their survivals.



At the AVA Conference at Canberra, Australia

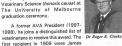
L-R: D. Gibaca Asiba, CVO, PNG: Dr. Robin Yarrow (Fiji), President CV4;
Dr. Baddley Antia, CVA Councillor, Solomon Island; Dr. Norm Blackman, President, AVA, Dr. Daune Landats, President Canadian Veterinary Medical Association;
Dr. Tim Greet, President, BVA; Dr. Jack Walther, President, AVAA; and
Dr. Jo Sillinec, Immediate Past President AVA

The papers are published as follows and CVA News would welcome reaction from its readers to any aspect of these important topics. One of the speakers was Dr Robin Yarrow, CVA President, from Fiji who also participated in discussions with the Australian and international leaders of the veterinary, profession gathered for the conference.

> - Dr WJ Pryor Treasurer, CVA

CVA Regional News Australasia = University of Melbourne Awards Roger Clarke

Dr Roger Edward Clarke received the prestigious Degree of Doctor of Veterinary Science (honoris causa) at The University of Melbourne





Anderson Gilruth and William Tyson Kendall.

Dr Clarke was honoured for his leadership throughout the veterinary profession after distinguishing himself across a wide variety of key industry organisations. He received a meritorious service award of the Australian Veterinary Association (AVA) in 1985, was the Australian Small Animal Veterinary Association (ASAVA) practitioner of the year in 1998, and was made a fellow of the AVA in 1995.

Australian Veterinary Journal, Volume 82, No. 4

New President of AVA

At the Australian Veterinary Association (AVA) Conference held in Canberra, on 2-7 May, Dr Norm Blackman assumed office as the new President of AVA.



11th Australasia/Oceania CVA Regional Meeting and Workshop

The 11th Australasia/Oceania CVA Regional Meeting and Workshop will be held from 28th October to 1st November 2004 at Lae, Papua New Guinea. The theme of the Workshop is "Sustainable Livestock Production and Food Security - The Role of Women and the Threats of Emerging Diseases". The Meeting and Workshop is jointly organised by Papua New Guinea Veterinary Association and the Commonwealth Veterinary Association.

Donation of Books to Australasia/Oceania Region

President of CVA Dr Robin Yarrow, received a donation of 22 books [The Compendium of Animal Reproduction from Intervet Ltd., of Auckland, the NZ subsidiary of Intervet International, for distribution to Pacific Island veterinarians. This is a very useful compact reference for the veterinarians of the region. The CVA is very grateful to Dr. Vivienne Lintott, Intervet's Companion Animal Business Manager, who made this donation possible, as well as to Dr. Helen Beban, NZ CVA Councillor for her role.



16th VAM Congress

The 11th International Conference of the Association of Institutions for Tropical Veterinary Medicine and 16th Veterinary Association Malaysia Congress will be held at Sunway Pyramid Convention Centre, Petaling Jaya, Malaysia from 23rd - 27th August 2004.

The theme, "Animal Health: A Breakpoint in Economic Development?*, reflects the importance of animal health in the sustainable development of the animal industry. The focus will be on the improvement of human health and quality of life by means of increased and safe food production, achieved through the enhancement of research, training and education in veterinary medicine and livestock production. There will be a special session on Avian Influenza catering for the need to deliberate on this important disease especially after the recent outbreaks in some Asian countries, posing a potential threat of a new pandemic of the disease.

The exhibition which is to be held simultaneously will improve the opportunity to showcase the recent advances on R&D towards better health and economic development in the industry.



Timor-L'Este Veterinary Association elects its first President

Dr Antonino do Karmo has been elected as the inaugural President of the Timor L'Este Veterinary Association. The other office bearers of the association are Dr. Acasio Amaral, Vice President and Dr. Mario Francisco Amaral, Secretary.



New Councillor of Fiji

Dr Kenneth Cokanasiga is the new Councillor of Fiji.
He replaces Dr Robin Yarrow who is now the President of CVA.

Dr Kenneth graduated from Massey University, New Zealand in 1978 with a Bachelors degree in Veterinary Science. He obtained his Masters in Tropical Veterinary Medicine from Edinburgh University, Scotland in 1992

He has worked as Veterinary Officer from 1979 - 1981 and as Divisional Veterinary Officer (Western from 1981 - 1984 and Divisional Veterinary Officer (Central Eastern) from 1984 - 1988 in the Animal Health and Production Division of the Ministry of Agriculture, Fisheries and Forests.

Later on he became Principal Veterinary Officer (HQ) and worked until 1992, when he was appointed as Acting Director, Animal Health & Production Division IAdministration / Finance). He became the Director, Animal Health and Production Division (Chief Veterinary Officer) in 1994.

In 1998, he was appointed as Deputy Permanent Secretary (Operations) and since 2002 is working as Deputy Secretary for Commerce, Business Development and Investment in the Ministry of Commerce, Business Development and Investment to date.

He is a member of many professional associations and member of many committees set up by the government and other organisations.

Long-serving Veterinarian departs Region

The Fiji Veterinary Association [FVA] staged a farewell for Dr. Peter Saville, Animal Health Adviser in the Secretariat of the Pacific Community [SPC] and past FVA President and CVA Councilior, in January, Peter, who has spent 25 years working in the Pacific Island segion, has joined the Northern Territory Department of Agriculture as Veterinary officer, based in Alice Springs.

Peter made the transition to Fiji from rural practice in UK in 1978 and started as Divisional Veterinary Officer in the Animal Health and Production Division of Fiji's Ministry of Agriculture. Over a 10 year period Peter rose through the ranks to Acting Principal Veterinary Officer.

His duties included in-service training, lecturing, at the Fiji College of Agriculture, 18 and Brucellesis control, supervision of the veterinary investigation laboratory and coordination of Hisvatock farm supervision. He also chaired the Fiji Agriculture Show Committee and assisted in cyclone rehabilitation, orden using his own launchil After completing a Masters degree at Edinburgh, Peter served as Chief from 1988-91, following which he pined the SPC.

Peter's service with the SPC until 2004 saw him managing the Regional Animal Health Service of 7 staff, while based physically in Suva, Fiji. This unique and valuable service ocevers a vest race of the Petific was and includes some 20 island states and territories. Although he has moved to an entirely landled situation, Peter is maintaining close links with Fiji - this includes require repeliesihment of his supply of stavlal includes require repeliesihment of his supply of stavlal

Fiji's first private Veterinary Clinic opens

Vesteriary Care (Fiji) opened its doors to the Fiji public on January the Si hot this year. The private clinic is the brain child of local vesterinarian Dr. Ash Reddy, Reddy, a Melbourne University graduate as yet that the discovered a nich for service orientated and personalized small animal vesterinary care after working in Fiji for the last three years. "There are a large number of locals and expertises based in Sura who treat their animals. Wise members of their family. Vesterinary Care (Fiji) strives to continually improve the range of Services is the as wiselihed to this clients."

SPCA Veteringrigns

On March 11th 2004, Dr. Asish Narayan and Dr. Beto Yadlin commoned their employment with SPCA. Fiji. Both of the veterinarians have brought diverse skills with them. Skills which will no doubt help SPCA in its list as the state of the skills with a skill with a skill with the skills with the skills with the skills with the skills with skill

Dr. Richard Philip of Edinburgh, who served as a Fiji Government veterinarian in the early 1970s and who has acquired considerable experience working in animal welfare in Bhutan, spent several weeks reviewing the SPCA's systems and procedures in March on a voluntary hasie

> - Riteshni Tarak FVA Secretary

Canada Caribbean

Jamaica

Canada

Hon. Life Membership of CVMA

Dr. Bert Stevenson, Past President, CVA will be conferred the Hon. Life Membership Canadian Veterinary Medical Association at its 56th Annual Convention which will be held from 7-10 July 2004 at Quebec City, Quebec, Details of the award will be published in the next issue of the News.



CVMA Appoints New Continuing Education Coordinator

Dr Jeanne Lofstedt, Associate Dean of Academic Affairs at the Atlantic Veterinary College and Past President of the CVMA. assumed the position of Continuing Education (CE) Coordinator in January 2004. Dr Lofstedt will develop the CVMA's CE program in consultation with the Local Organising Committee, the



Dr. Jeanne Lofstedt

Business Management Committee, the Professional Development Committee, and several veterinary speciality groups. Dr. Lofstedt's outstanding contribution to the veterinary profession includes research papers. book chapters, positions on editorial boards, and lectures to veterinarians and animal owners.

Canadian Veterinary Journal, Volume 45, No. 3

Dr Wayne Lees, CVA Councillor, Canada has resigned. A new Councillor is yet to be nominated by CVMA.

New CVA Councillor of Jamaica

Dr. Michael Motta was elected as CVA Councillor for Jamaica at the last Annual General Meeting of the Association.



veterinary degree from the University of Queensland, Australia, graduating with honours in 1998. He had a previous Science degree in General Agriculture, from the University of the West Indies, graduating in 1990.

His practical experience includes the current position as veterinarian for the West Indies Alumina Company's (WINDALCO) Agriculture operations, which are based in St. Ann. St. Catherine and Manchester parishes. He is responsible for herd health of dairy and beef animals, horses and mules, and is available on a consulting basis for WINDALCO - sponsored pig, goat and poultry projects in the local community. He also has direct responsibility for the beef cattle operations in Alderton St Ann (an area of over two thousand hectares, which pastures approximately two thousand Red Poll and Brahman cattle).

In addition, he does private veterinary work, which includes small and large animal medicine and surgery.

His areas of special interest include Theriogenology, including reproductive physiology, artificial insemination and embryo transfer; surgery on large and small animals; herd health programmes; preventive veterinary practice and education/training.

New Office begrers of Jamaican Veterinary Medical Association

The following were elected as office bearers of JVMA.

President Dr. Cedric Lazarus Dr. Graham Brown Vice President

Dr. Sarah Wilkinson-Evtle Secretary Dr. Wintorph Marsden Assistant Secretary

Dr. Sophia Ramlal Treasurer

Trinidad & Tobago

Caribbean Veterinary Medical Association Biennial Conference

The Trinidad and Tobago Veterinary Association ITTVAL in collaboration with the Commonwealth Veterinary Association (CVA) will host the Caribbean Veterinary Medical Association's (CbVMA) 23rd Biennial Conference from November 8th to 12th 2004 at the Crowne Plaza Hotel in Port of Spain, Trinidad and Tobago. The theme of the conference is "Emerging Trends in Veterinary Medicine". The Conference moves to a new venue every 2 years through the Caribbean. In the past the Veterinary Associations of four larger territories namely Barbados, Guyana, Jamaica and Trinidad & Tobago, have heen responsible for the hosting of this Conference.

This year's theme is very exciting as there are many disease conditions, both in the animal and human world. that pose a threat to us. We see West Nile Virus, Bovine Spongioform Encephalopathy, Avian Influenza and SARS on the horizon in the Caribbean. If appropriate steps are not taken these diseases can become a serious problem.

We are in the process of putting together a comprehensive program in the areas of Food Safety and Biosecurity, Animal Welfare, Veterinary Public Health. Equine, Canine and Food Animal Medicine and Surgery, Poultry and Wildlife. The regional meeting for the Caribbean/Canada region will also be held during the conference. Details of the conference are posted on the website www thra org

The TTVA hoasts of being one of the first Veterinary Associations in the Caribbean, It was formed in 1934 by a handful of Veterinarians. Today, Veterinarians living in Trinidad and Tobago number over 100 and climbing. There is a School of Veterinary Medicine on the island. The school is affiliated to the University of the West Indies. It has the capacity to graduate 15 to 20 veterinarians annually

Trinidad and Tobago is the most southern of the Caribbean chain of islands. It is the industrial canital of the Caribbean. Oil, gas and manufacturing are the mainstay of the economy of Trinidad. Tobago, however, relies on tourism. So between the 2 sister isles there is a good balance of industrialization and tourism. Both islands are noted for their ecotourism in the form of bird watching and tropical rain forest.

So if you are looking for a good balance of continuing education in the bustling Trinidad and the serenity of beautiful beaches and bird watching in Tobago this conference is a must. Plan to attend.

> - Dr John Fernandes CVA Councillor, Trinidad & Tobago

A Short History of Medicine 2000 BC - 2000 AD

2000 BC - Here, eat a root

1000 AD - That root is Heathen: Say this prayer

1850 AD - That prayer is superstition: Here, drink

this potion 1940 AD - That potion is snake oil: Here, swallow

this Pill 1970 AD - That pill is ineffective: Here, take this

antihiotic 1985 AD - That antibiotic is too weak: Here, take this cortisone

2000 AD - That cortisone is dangerous: Here, take

this root

Heartheat Clue to BSE

Researchers in Manchester have developed a reliable, non-invasive method to help diagnose the early signs of the prion disease BSE in cattle and other transmissible spongiform encephalopathies. Dr Chris Pomfrett and his colleagues at the Manchester Royal Infirmary have shown that abnormalities in heart function can be detected long before the characteristic behavioural changes seen in prion diseases.

Continued on Page 20

Corrigendum

CVA News January 2004

Page 20: Dr Collin Boyle graduated in 1991 and not in 1986 as published.

- Editor

East, Central and Southern Africa

Kenya

Kenya Women Veterinary Association Project

The CVA has approved a project on "Training of Pastoral Women in Magadi Division of Kenya on Usestock Management" submitted by the Kenya Women Versinary Association. This project will help Magazine and the submitted by the Kenya Women Association will be submitted by the Ngurimen sees and improve their skills on livestock management, transfer technology on livestock management and health to women. Also to form women groups in Nguruman area for the purpose of Training and to develop training materials that can be utilised livestock management skills.

The KWVA members are actively engaged in helping the massal women in the region.



Maasai women administering paraffin in the ear of a goat that

Heartbeat Clue to BSE cont'd from Page 19

They say a test based on measuring variations in the intervals between heartheats could provide a simpler and more efficient method than the only current tests for use in the live patient. These are based on cutting out samples of lymphatic system tissue and looking for evidence of the abnormal proteins that cause TSEs (transmissible sponiform encephalopathies).

- BVA Press Release



KWVA member appraising livestock disease at community level



KWVA member with maasai girls interested in veterinary profession

Zambia

Zambia Goat Project

A project sponsored by CVA on "Establishment of Goat Production Unit at Women's Group in the Village of Chikwanii" has been in operation in Choma district of Zambia to help the women farmers in improving their economic status.





Women receiving goats provided by CVA



CVA-ECS Africa Regional Meeting

The Commonwealth Veterinary Association Regional Conference for Eastern, Central and Southern Africa will be held jointly with the Annual General meeting of the Veterinary Association of Zambia (VAZ) in Lusaka, Zambia from 4th - 6th August 2004. The theme for the meeting is "Towards Sustainable Livestock Production and Food Safety, The Global Challenge".

A training session on the use of the FAMACHA diagnostic technique will also be held.

Delegates will also have an opportunity to see Victoria Falls and a visit to the Women's Goat Project at Batoka in Choma district. A demonstration on the use of FAMACHA diagnostic technique will also be held at the Goat project site.

General Information

- Airport departure tax of US\$ 20 has to be paid by all departing visitors in foreign currency.
- Malaria is prevalent in all areas of Zambia and participants are advised to seek medical advice.
- Registration fee US\$ 100. Payment must be made by cheque or international money order to the Veterinary Association of Zambia and sent to

Dr. Gregory Mululuma The Treasurer Veterinary Association of Zambia P.O. Box 32117

Lusaka, Zambia Cell: 260 95 842801

The Organising Committee has arranged for accommodation at the conference hotel, the Holiday Inn.

> Dr. Martin C. Simuunza Acting President, VAZ

Mauritius

New Executive Committee of Mauritius Veterinary Association

A new Executive Committee of MVA has been constituted on 27th May 2004 with the following members.

Dr. Jaumally, M.R. Acting-President

Dr. Groodoyal, V.B Secretary

Dr. Meenowa, D Treasurer

Dr. Narainapoulle, K. Member Member

Dr. Ramchurn B.

Dr. U. Meenowa has been appointed as CVA Councillor for Mauritius replacing Dr Jusrut who has resigned.

> - V.B. Groodoyal Secretary

Tanzania

Donation of Books from Australia

Eleven current textbooks worth about \$US 2000 [based on their stated selling prices) by Elsevier Australia, handbooks worth about \$US 400 by the Postgraduate Committee of Veterinary Science of Sydney University and 20 used textbooks by the Staff of Faculty of Veterinary Science at Sydney University have been donated to Sokoine University, Morogoro, Tanzania through the



Dr Steve Ettinger, a leading veterinarian in California, is also sending directly to Tanzania a large number of recent veterinary journals and texts.

CVA Book Programme in Australia (Jeff Cave).

- Dr David Watson CVA Guest Lecturer Faculty of Veterinary Medicine Sokoine University, Tanzania

Uganda

VSO Volunteer Peter Grav's Report from Uganda

Lam working for Voluntary Service Overseas (VSO) as a Veterinary Officer for Local Government in Kihaale district, Western Uganda. Farming is typically subsistence only with households having few animals. The indigenous Banyoro tribe are not traditional cattle keepers and lack basic knowledge on nutrition, deworming and acaricide usage. Most production losses come from the tick borne diseases - East coast fever mostly with also Babesiosis and Anaplasmosis as well as Trypanosomiasis. Improved genetics have become available with the local long horned Ankole cattle being crossed with Friesan. Crossbreeds are much more susceptible to the above tick borne diseases and only the better farmers can keep them successfully.

Following the successful Rinderpest vaccination program (PARC- Pan African Rinderpest Campaign) the next disease on the list of control and eradication is Contagious Bovine Pleuropneumonia (CBPP). The threat in the District is great as we share our border with the Democratic Republic of Congo (DRC) and with the ongoing conflict in that region many displaced persons are seeking refuge elsewhere bringing with them their animals.

It is a difficult exercise to vaccinate with the farms being so small and scattered. Mobilisation is through the local community radio station as telephone network is very poor, farmers are advised to work together to build a communal crush in a central location eg. near a school so that all surrounding animals can be vaccinated on the same day. The strength and design of the crush is often very poor, using local materials such as bamboo tied together with banana leaves and being too wide allowing animals to turn can make the job frustrating. With up to 5% of animals suffering necrosis of the tail at the injection site poor owner compliance has also been a problem. The program is compulsory and has given me a good opportunity to meet farmers and discuss other problem areas such as nutrition, worm and tick control.

Recent outbreaks of African Swine Fever have reduced levels of swine in the District. With pigs being the most affordable source of animal protein, strategies to control and prevent further outbreaks are important. This is difficult however with the open, free roaming system of keeping pigs here.

Milk production is still very low and with no means of storage, marketing is difficult. The local people have not been educated on the importance of animal protein in the diet, which locally consists of the staple foods matooke (steamed banana), maize meal and beans.

The Government has launched a donor funded segrant to private the Agricultural sector. The 2 segrant control of the segrant control of the segrant control of the segrant called National Agricultural Advisory Services NAADS) aims to modernize Agricultural byempowers subsistence farmers to access privately delivered spiritural advisor. This will effectively force extraction workers including Agricultura, Veterinary and Fisheries to shift to the private sector.

The district faces a severe shortage of qualified personnel in many departments including Veterians, Most new graduates are choosing to stay in the capital city Kampala and work in pharmaceutical shops or continue on with further education.

Although being employed by the Government most of the work that I do is an a private procitioner. I have a motorcycle on which I carry a box of essential drugs and spend most of the day providing direct treatment services to those farmers that contact me. I also offer sufficial insemination services, carrying a small flask of liquid Nitrogen in a rucksack on my back. I give a weekly program on the radio about I Viestock issues. This gives me a good chance to comment about areas that I feel need to be improved as well as routine advice for farmers.

The local Runyoro-Rutoro language has proved difficult to learn. I have had a list of basic questions translated - things like how long has the cow been sick? Is it eating? Have you given medicine for worms? The aim is to get a yes/no response however as Africans love to talk I find that the response is often very lengthy much of which I cannot understand.

I am now approaching the end of my 2 year VSO placement. I have readly established myeal Within the local community now, most days there is a queue of farmers waiting at my door in the morning – many having ridden bicycles or walked long distances for assistance. I em able to plan my day according to where people are located and how urgent the problem is. My motor biking skills have gone from zero to one hundred percent. As well as riding every road and track in Kibasle District I have also toured Ugands and Rivands - all 25cs Suzüdi.

Much of the work I have been doing has been basic treatment of sick animals. While on Tarm I try and give advise on basic livestock practices - deworming of young stock, adequate feeling and castration to all attenting and prevent inbreeding. Farmers all over the world can be slow to pay their vet fees but here in Africa where yout people lead a subsistence "hand to moun" lifestyle outstanding treatments. Sometimes is is better to ask for a chicken or vegetables which you know they have and can easily hand our services.

Kibaale is fortunate to have a community radio station KKCR (Kibaale Kagadi Community radio). The NGO responsible for the programming and running gives the Veterinary Department a free 30 min slot each week. We use this to discuss issues of importance or to advise farmers on routine treatments and disease prevention. With recent outbreaks of FMD and ASF we have been able to sensitize farmers on disease control and hall to sensitize farmers on disease control and management as well as enforcing quarantine regulations which in the case of FMD Seems to have been successful following a six month restriction on animal movements. In this problem to the sensitive of the sensitive farmer in the sensitive farmer is like in developed countries which is often beyond most peoples imagination.

I have been doing some work for the Central Government Ministry of Agriduture Annian Industries and Fisheries (MAIP). For Uganda to be declared free of General Mair Marian Maria

One of the final activities I will be involved in is the training of community based animal health assistants. It is a scheme that has been tried in a few other African countries despite resistance from some of the Professional Veterinary bodies. The idea is to train capable school leavers in basic animal husbandry and diagnosis and treatment of the more common problems. They are only trained in those areas where attracting qualified Veterinary personnel has been difficult or impossible (geographically remote, insecure, poor infrastructure etc). For an area like Kibaale it will be a step forward as recruiting yets has been so difficult. The assistants will get their training from the existing Veterinary staff and work under some supervision. They are given training, a bicycle and a basic start up kit of essential drugs. So much of my placement has been a direct provision of treatment services that the opportunity to do some capacity building in such a way as this is satisfying.

During the past couple of months I have been receiving a lot of thanks from the community for the work I have done. Most people realize that I will be leaving soon and there may not be another VSO replacing me. I have certainly lifted farmers expectations about what the duty and performance of a vest should be so now they can demand an improved service from whoever happens to work here in future.

The CVA and BVA are cosponsoring my 2 year placement with VSO.

- Peter Grav

- Peter Gray Veterinary Officer, VSO

West Africa



Obituary

Professor ENW Oppong: A distinguished Veterinarian, Scientist and Teacher

In a tribute to Professor Oppong, Alex Morrow, Department for Environment, Food and Rural Affairs (Defra) writes:



Professor Emmanuel Nana Waddie (Kwame) Oppong who died in December 2002 had a distinguished career which extended well beyond his native Ghana.

One of the earliest batch of Ghanaian veterinarians, Kwame Oppong graduated from Mathura in India in

1959 with a degree in Veterinary Science and Animal Husbandry having previously trained as a Veterinary Assistant in Vom, Nigeria. He them studied at Cambridge University where he took the exams for his membership of the Royal College of Veterinary Surgeons. While at Cambridge he also met his wife Christine. Returning to Ghana in 1961 he was posted to Tamale where he headed the veterinary laboratory producing rinderpest and other vaccines and in 1963 he joined the staff of the Animal Science Department of the University of Ghana. He was awarded the Diploma in Tropical Veterinary Medicine from the University of Edinburgh in 1967 and a PhD from Trinity College, Dublin University in 1970. He was appointed an Associated Professor in 1974, a full professor in 1978 and an Emeritus Professor in 2000. He was Head of Department of Animal Science from 1972 - 1982 and Dean of the Faculty of Agriculture from 1975 - 1978.

Professor Oppong made a very significant contribution to the control of animal diseases through his research and teaching and in an advisory capacity to both national and international agencies. As Professor and Head of the Department of Animal

Science at the University of Ghana. He had a particular interest in skin diseases of livestock, the subject of his PhD and many of his papers. He was employed by the Food and Agriculture Organisation of the United Nations (FAO) and the United Nations Conference on Trade and Development (UNCTAD) as a consultant on a number of livestock disease projects across Africa. He joined FAO in 1984 as a Technical Adviser/Chief Technical Adviser on a joint Nigerian Government/ United Nations Development Programme-funded project concerned with the settlement of semi-nomadic pastoralists in designated grazing areas in Nigeria. This posting also allowed him to renew his interests in streptothricosis (dermatophilosis). On his advice the Government of Nigeria established the Streptothricosis Research Centre at Vom. Returning to Ghana in 1988 he re-established his links with the Animal Sciences Department of the University of Ghana advising and supervising postgraduate students.

He served on numerous national and international boards and committees including the Board of Directors of the International Laboratory for Research in Animal Disease, Nairobi, Kenya where he served as chairman of the teaching committee for several years. He was a founding member of the Association for the Advancement of Agricultural Science in Africa, an external examiner at several of the Nigerian veterinary colleges, the University of Nairobi in Kenya, the University of Guelph in Canada and the University of Edinburgh. He was elected a Fellow of the Ghana Academy of Arts and Sciences in 1976. He was awarded the Sir Alexander Robertson medal by the University of Edinburgh in 1997 in recognition of his contribution to the advancement of scientific research and veterinary education in Africa.

A radical by nature he never escaped from the idealism he embraced as a schooling of uniting the pre-independence period and the early years of Nixrumah's rule. He remained ever loyal to his Abantari rosts and proud of his cultural heritage as he has documented in his memoirs of his early years that are soon to be published, he actively promoder has worked and vascendend in care has the worked and vascendend in care have seen by the proposed of his influence in some African countries under externally imposed structural adjustment programmes.

He is survived by his wife, a son and two daughters and four grandchildren.

Emmanuel Nana Waddi (Kwame) Oppong wasborn on April 2 1927. He died on December 12, 2002 aged 75 years.

- Dr Alex Morrow Department for Environment, Food & Rural Affairs

U.K.

Nigeria

Appreciations

Dear Commonwealth Veterinary Association (CVA),

GREETINGS

I write to show my appreciation for the CVA's onation of books through the book programme in Canada, to our small developing community. I am cent veterinary student graduate. Our graduation from the Vtetrinary Faculty was just recent, following our project defence. I worked on Sero-prevalence of Prucellosis in Horses in Sokoto Metropolis, and had some beautiful results using RBPT & SAT.

As part of our professional training, the veterinary medical students, under the auspices of the International Veterinary Students' Association (IVSA, Local Chapter), undertake varied extension services. Last year, with me as the President, our local chapter was registered with the International Veterinary Students' Association (IVSA). In the recent past, we had embarked on public enlightenment campaign against prevailing zoonoses within the Sokoto metropolis; free anti-rables vaccination using tissue culture vaccine, and PPR: developing our small community's education. research, and learning by sourcing complimentary educational materials from some international veterinary associations, organisations, and few individuals, through the IVSA, a step ahead to raise the overall standard of veterinary education in our disadvantaged community; renovation of the Vet.Watch with it's logo, and establishing a Secretariat and Library (Prof. D.I.K. Osori's Housel: organising local seminars and symposia, outreach tours to Nomadic "Fulani" community. The Fulani pastoralists who own most of the cattle practice the traditional nomadic system. Much of the milk from local Fulani cows is hawked freely in the cities and communities in the raw fresh form or in traditionally fermented "nono".

With my best personal regards.

Sincerely Yours

Dr. Aminu Shittu Faculty of Veterinary Medicine Usmanu Danfodio University PMB 2254 Sokoto, Nigeria

U.K. Mediterranean

United Kingdom

Women veterinary surgeons set to lead the profession in 2005

Next year should see two women veterinary surgeons leading the veterinary profession in the UK. At a meeting of the BVA's Council on March 19, Dr Freda Scott-Park, currently

President of the British Small Animal Vestimary Association (BSAVA), was nominated as President-Elect of the BVA. Her name will be taken forward for approval at the BVA's AGM, to be held in London in October. Dr Scott-Park will become only the second female President of the BVA, the first being Miss Mary Brancker in 1967/68. Meanwhile, earlier this month, the Council of the Royal College.



Dr Freda Scott-Park



Mrs Lynne Hill

elected Mrs Lynne Hill: who was President of the BSAVA in 1994/95 - for nomination as junior Vice-President of the RCVS. Again, the post is subject to confirmation at the RCVS's AGM in July, but assuming that both are successful, the veterinary profession will, for the first time, have women occupying its two key Presidential prose simultaneously.

of Veterinary Surgeons (RCVS)

The Veterinary Record, March 27, 2004

Award for Retiring CVO

Mr. Jim Scudamore, the outgoing Chief Veterinary Officer (CVO) recently received the Meat Hygiene Service - (MHS) Merit Award for 2003/04. MF Scudamore (left) was presented with the award by Mr Chris Lawson, Chief Executive of the MHS, on March 22, the day before he retired as CVO, after seven verais in the post.

The award is one of the four made annually by the MHS: however. the MMS Merit Award, unlike the other three swards ie reserved for someone who is not an employee of the MHS but who made



Mr Scudamore (left) with the award by significant Mr Chris Lawson. Chief Executive. MHS

contribution to meat hygiene. According to the MHS, Mr Scudamore has done this over a number of years, not least as a member of the Food Standards Agency's (FSA's) Meat Hygiene Advisory Committee, which advises the FSA Roard on Meat Hygiene matters.

The new CVO. Dr Debby Reynolds, took up her post on March 24, having previously been Veterinary Director of the FSA

The Veterinary Record, April 3, 2004

Veterinary Surgeons Honoured

The BVA immediate Past President, Mr Peter Jinman, was one of number of veterinary surgeons to be included in the Queen's Birthday Honours this year. Mr Jinman, who serves on the Government's Encephalopathy Spongiform Advisory Committee, was rewarded with an OBE for services to the

veterinary profession.



Mr Peter Jinman

Dr Judy MacArthur Clark, chair of the Farm Animal Welfare Council and a Past President of the Royal College of Veterinary Surgeons, was awarded a CBE for services to animal welfare. Professor John Wilesmith, head of the Epidemiology Department at the Veterinary Laboratories Agency, was also appointed a CBE.

Mr Andrew Hayward, Divisjonal Veterinary Manager, State Veterinary Service, Carlisle, received an OBE, as did Professor A M 'Mac' Johnston of the Royal Veterinary College and a member of the Advisory Committee on the Microbiological Safety of Food, for services to food safety. An OBE also goes to Dr Desmond Rice for services to the agri-food industry in Northern Ireland.

Major Jane Rose of the Royal Army Veterinary Corps was awarded an MBE.

- Media (BVA)

Falkland Islands

News from Falkland Islands

The latest news from here is that we are currently in the midst of a large sheep AI/ET programme. It started last Monday (24th May) and is due to finish on Thursday 3rd June. During that time we will inseminate by laparoscopic Al approximately 2000 ewes; we will also implant approx, 400 embryos. All the genetic material has been imported from Australia and New Zealand and consists of various breeds - South African Mutton Merino (SAMM), Dohne Merino, Polworth, Cormo and SRS (soft rolling skin) Merino.

The idea behind the programme is to improve the wool quality of the Falklands flock (i.e., decrease the wool fibre diameter) but, at the same time, produce an animal with a good carcass for slaughter in our EU approved export abattoir. This is the second year of a programme that will continue for some years to come. We are fortunate this year to be able to call on the expertise of Dr Adrian Veitch of Allstock (WA) Pty Ltd. who runs his own business specialising in reproductive technology in Narrogin, W. Australia.

> - Stenhen Pointing CVA Councillor, Falkland Islands, May 2004

Fowl Play

Lightweight plastic footballs are proving a draw for a new breed of chicken. the Devonshire white. West Country meat and poultry producer Lloyd Maunder is rearing its newly developed breed under the RSPCA Freedom Food labelling scheme. The scheme



kept under higher welfare standards, which, for chickens, include providing more room for the birds within their open-plan houses to allow them to flap their wings and move around more freely, and enriching their environment through the provision of bales and perches for them to jump up on to and explore, and various 'attractions' to catch their attention.

- The Veterinary Record, May 15, 2004

Abstracts

Role of essential trace elements in embryonic and fetal development

This article reviews the evidence for the links between trace elements nutrition and reproductive success. An adequate supply of certain trace minerals is essential for many metabolic-pathways involved in the development of the conceptus during pregnancy, and for early growth, Zinc, copper and manganese are among the elements that have the preatest impact on reproduction, and they are present in several times higher concentrations in the conceptus than in other reproductive tissues. Furthermore, recent work has suggested that the dietary availability of these elements can be increased by attaching them to short peptide chains in the form of proteinated trace mineral; for example, feeding sows with these minerals increases the concentrations of the elements in their conceptuses compared with sows fed inorganic mineral salts, and improves the sows' reproductive performance.

HOSTETLER, C.E., KINCAID, R.L. AND MIRANDO, M. (2003). The role of essential trace elements in embryonic and fetal development in livestock. *Veterinary Journal*, 166: 125-139.

Changes of coat colour in bitches treated with cabergoline

Forty bit these were treated with 5 µg/sg categories and adult, 10 of them for seven days for days for seven days to induce overstus. Seven of the dogs treated for more than 14 days developed changes in cost code which lasted until the next cost and diding. Favinceloused bitches developed a yellowish cost, and Argentine bear hounds became black poted, family on their extremities. It is suggested that the changes could be mediately the product of the days of the seven days for the seven

GOBELLO, C., CASTEX, G., BROGLIA, G. AND CORRADA, Y. (2003). Coat colour changes associated with cabergoline administration in bitches. *Journal of Small Animal Practice*, 44: 352-354.

Apoptosis of articular chondrocyte in horses with osteoarthritis

Apoptosis of chondrocytes has been implicated as a major change in the lesions of osteparthritis in people and experimental animals but there have been no studies in horses. Articular cartilage was collected from five horses with osteoarthritis and three normal horses. The histopathological changes were scored by a modified Mankin grading system, the extent of apoptosis of chondrocytes was assessed by a terminal deoxynucleotidyl transferase-mediated dUTP nickend labelling assay, and the production of nitric oxide (NO) from chondrocytes was evaluated indirectly by immuno-chemistry with polyclonal antibody to nitrotyrosine. There was a significant positive correlation between the histopathological grades and the percentage of chondrocyte apoptosis. In the osteoarthritic cartilage the distribution of chondrocyte apoptosis, the degeneration of cartilage matrix and the production of NO overlapped, suggesting that these pathological processes were closely interrelated.

KIM, D.Y., TAYLOR, H.W., MOORE, R.M., PAULSEN, D.B. AND CHO, D.Y. (2003). Articular chondrocyte apoptosis in equine osteoarthritis. Veterinary Journal. 166: 52-57.

Epidural ketamine for perineal analgesia in cattle

Ketamine hydrochloride was injected into the epidural spaces of 20 cattle; they ranged in age from a few days to five years. Ten of them received 2 mg/kg bodyweight and 10 received 3 mg/kg. After either dose, at least five minutes were required before adequate analgesia for perineal surgery was obtained; it was then maintained for 45 to 60 minutes by the 2 mg/kg dose and for 55 to 70 minutes by 3 mg/kg. No significant changes were detected in the mean respiratory rates, heart rates or body temperature of the animals for up to 75 minutes after the injection. The analgesia was adequate for superficial operations but the level of muscle relaxation was inadequate for postscrotal urethrotomy or the correction a vaginal prolapse.

KAMILOGLU, A., ATELAN, G., OZTURK, S. AND KILIC, E. (2003). Epidural injection of ketamine hydrochloride for perincal analgesia in cattle. Irish Veterinary Journal. 56: 514-516.

General Articles

The Livestock Sector in the Pacific Islands – Challenges and Opportunities*

Robin Yarrow

President, Commonwealth Veterinary Association GPO Box 15411, Suva Fiji

I. The Pacific Islands Region

The Pacific Ocean is greater in area than all the other oceans combined and hosts many thousands of individual islands now under the jurisdiction of some 22 Pacific Island Countries and Torritories [PCTe1.] The combined land area is 570,000 square km, while the region's total sea area of over 30 million square km is often referred to as the "aquatic offer specific period to the square that is often referred to as the "aquatic policy and the package of the period to the package of the period to the per

Although relative isolation and fragmentation have provided some benefits, including protection from exotic diseases, the constraints of smallness, distance, proneness to natural disasters and the narrow resource bases, have generally hindered the development process. Civil insurrection and the overthrow of legitimate governments have also severely impacted on several larger PICTs. Overall, economic progress has been disappointing, despite relatively high levels of ODA on a per capita basis, in particular to the smaller PICTs. A significant loss of population through emigration, especially from Polynesia, is a matter of great concern because of skill loss. There is however, a positive aspect to out migration in the high level of foreign exchange remittances being received by several PICTs.

In spite of emigration, high population increases in several PICTs and growing unbanisation are given in several PICTs and growing unbanisation are given greates to a number of worrying trends, including unemployment, substance abuse, communicable dusing set in particular HIV/AIDSI pollution and environmental damage, in the later repard, the pristine and yet many fragile ecosystems are at special risk The issue of sea level rise is adding further challenges.

While there are significant differences between individual PICTs there are a high number of shared needs. This was recognized as early as 1947, when the colonial powers established the then South Pacific Commission, [SPC, but now re-designated the Secretariat of the Pacific Community] a technical development agency run by the PICTs. The SPC comprises 3 main technical divisions i.e. land, marine and social and provides a range of services, complementary to those provided by national governments, in support of sustainable development and well-being of Pacific peoples. There are now several additional inter-governmental regional organisations, including the University of the South Pacific [USP] and entities which address tourism, off-shore fisheries and the environment. This regional mode of delivery of assistance is probably more developed in the Pacific region than anywhere else. In order to ensure coordination and complementarity between these various entities and the effective use of resources, a Council of Regional Organisations of the Pacific [CROP] has been established. At the apex level, all regional development activities are overseen by the Pacific Islands Forum Secretariat which services the Forum of Pacific Island leaders (of fully independent states) and which includes both Australia and New Zealand.

The 2 most important regional organisations for the livestock sentor as the SPC and the USP. The SPC possesses along-standing agriculture programme within which there is both an animal health service as well as a blosecurity service. The SPC works closely with national contacts in providing advisory services, training, collaborative initiatives, workshops and information and also networks with a range of other entities such as FAQ. DIS and ACIAR. A Conference of Heads of Aquiculture and Livestock Production Services (PHALPS) approves and reviews the Work Program.

^{*} Paper presented at the Australian Veterinary Association Annual (AVA) Conference, 2-7 May, 2004, Canberra, Australia

The USP, one of only 2 regional universities in the world, was established in 1986 in response to an examing regional need for higher education. It has examing regional need for higher education. It has 12 member countries, which all possess outrach USP centres. '3 campuses, [Fiji, Samoa and Vanuatu] and as student roll of 18,000, 50% of whom study vis the distance mode. The Samoa campus hosts the School of Agriouture which provides Degrees and Diplomas in Agriculture and undertakes short term training and research.

Land is fundamental to all activities and it is important to underscore the way in which this resource is perceived within the region. In most islands, the land and people are still largely see as being indivisible. For this reason, land alienation through sale and individual ownership are very contentious issues. There has been very limited land alienation in the region. Customary land ownership has had 2 major implications. Firstly, it tends to discourage individual amailholder development, unless this specifically involves indoverse themselves. Secondly, investment between contrained to the contrained of the contrained in the contr

On average, over 50% of the region's population still resides in the rural sector, although as noted. movement to urban centres is continuing. In the 1970s in Fili, the term "subsistence affluence" was coined to describe the relatively comfortable village lifestyle, with ease of access to affordable food and shelter, [This term has lost much relevance as the standard of living in many villages has tended to fall! The contribution by the agricultural sector to subsistence living is still therefore significant and in the larger PICTs the total contribution by the sector is in the area of 25% to 40% of GDP and 40% of all economic opportunities. With urbanisation, there is also a larger market for domestically produced food, provided this is competitive with imports. A major downside of expanding urban settlements is an increasing housing problem. In Fiji, the most recent survey indicates that 10% of all households now live in squatter settlements.

II. The Livestock Sector

Origins and Numbers

PNG possesses the greatest diversity of native animal species, including a number of marsupials and large birds, several of which are also found in Northern Australia. Overall the region is not especially rich in animal life. Over half of the native birds are endemic, including the Birds of Paradise, of which PNG has the bulk of the world's species. The early Pacific Islanders brought pigs, dogs and poutry with them, as well as the rats. The origins of pigs in PNC, the most prevalent livestock species, have recently been dated to as early as 4,000 BC. Ruminata and horses did not reach the islands until around the 1830s, with the arrival of the first European settlers, who also brought pigs, poutry, deer and domestic pest as well as a range of what are now considered invasive species, such as the Asian Mongoose and several birds e.g., the mynah.

It is estimated that the domestic pig population in PKG is almost 2.5 million and 65% of households have pigs. The majority of these are village pigs with only about 2% as commercial production animals. It is not possible to quantify the feral (bush) pigs but the numbers are significant. The pig population throughout the remainder of the PfCTs is estimated at 1.5 million; with the highest densities in the Polynesian country with the highest densities in the Polynesian country.

The number of poultry kept by households in the region is estimated to be 17 million while a further 800,000 are reared in intensive broiler and layer operations, mainly in PNG, Fiji, New Caledonia and Samoa. In rural areas, on average around 50% of all households keep chickens. The large PICTs possess hatcheries.

The region's cattle population numbers some 700,000, of which around 95% are of beef type. The British breeds originally predominated but in the last several decades zebu blood has been imported, both as pure Brahman and also as crosses in the form of Santa Gertrudis and Droughtmaster, French breeds such as Charolais and Limousine have acclimatized well in both New Caledonia and Vanuatu, with recent introductions to Fiii, Fiii has about 40% of all cattle Dairy cattle are largely Friesian in type. There are both small and large holdings, with the latter being more prevalent in Vanuatu. New Caledonia and PNG while the former are more the norm in Fiji and the Solomon Islands. Most cattle are reared for meat but in Fili draught use and dairying are important. Small dairy industries exist in Samoa, Vanuatu and Tonga.

There are some 25,000 sheep in the PICTs, the bulk of which are in PNG, Fiji and New Caledonia. Sheep numbers are beginning to rise again with the recent development of a tropicalised meat breed in Fiji. Goats are more numerous and exceed 231,000 in number, some 68% of which are in Fijii.

The horse population is about 75,000 and many are still used for draught, stockwork and transport purposes. Horse racing has recently commenced in Samoa and tourism is providing opportunities for trakking. Some horse meat consumption takes place.

mainly in Tonga. In addition, there are some 12,000 farmed deer in New Caledonia, plus a further 110,000 feral deer. Small populations of feral deer are also found in PNG [Gulf Province] and Fiji. Apiculture is expanding with the low level of chemical use and relative disease freedom being advantages.

The livestock densities in some of the smaller PICTs are surprisingly high. For example, on Tuvalu and Tonga the density of pigs is 500 and 175 per square km respectively, while there are 1.18 and 1.13 per sepectively respectively. The surprise supprise s

Economic Role and Cultural Value

It is estimated that of some 760.000 rural households, representing a total population of 4.5 million [some 60% of the region's population] 550 000 households keep livestock. Of this total, some 438,000 households have pigs, with 300,000 households and 68,000 households owning chickens and cattle respectively. The benefits include the provision of subsistence dietary protein, manure, transport and draught power, the disposal of crop residues and weed control and cash income. Livestock and their products are also considered to be more price stable than many crops and cattle are believed to be possibly more robust during times of sudden natural disaster. The value of livestock meat may also be increasing as catches of reef fish decline as a result of fishing pressure.

Pigs have an important cultural significance, in particular in PNG, Vanuatu and the Polynesian islands. Their perceived value can in certain situations greatly exceed their real cash value. Pigs are a sign of status and are particularly valued for gifts, exchange and for a range of ceremonies, including bride/marriage, hair cutting, initiation, conflict resolution, celebration and turnezi. Tusks also have considerable value ceremonial purposes, in particular for funerals in Melanesian and some Polynesian PICTs.

In 1998, it was estimated that some 13,557 chones of beef were traded formally as well as informally, with the latter share of the market considered to be 49%. The region was also estimated than to be just under 50% self sufficient in beef, Individual country self sufficiency levels varied from 100% for Vanuatu (also an exporter) to 15% for PNG. The total value of production was estimated at US 2. All 100m. Dairy of the control of the co

to be less than 8%. Pork imports in 1994 were 1,993 tonnes while total consumption is estimated to exceed 60,000 tonnes.

Per capita consumptions of livestock products vary widely between PICTs and subsistence consumption is difficult to quantify. For example, in Tonga per capita sheep meat consumption exceeds 35 kg/year while in Vanuatu it is less than 0.05 kg per/year.

An estimate by the SPC in 2001 put the value of the region's pig industry at US\$107 million, that of cattle at US\$147 million, that of poultry to be US\$18 million with sheen and goats at US\$14 million.

Production Systems

Pigs are raised under several levels of husbandry which include free range to partially and fully enclosed. The majority of the region's production still comes from free range pigs, although with increasing urbanisation and expanding tourism industries a greater share of output is being derived from enclosed systems, the high costs of feed and management have been major constraints for small holder stroughts.

Approximately 900,000 hectares of land or only 1.6 % of the total land area in the larger PICTs is devoted to grazing. However, this represents 26% of the total arable, the rece or pan dipatoral area due to the mountainous terrain of most volcanic islands. Some 15% of households own ruminants and these are generally grazed in small holdings, often in association with cropping. Small holder cuttle can create considerable conflict with adjacent food cropping when trespassing grainins firtile crop disrange. Such incidents often result in arguments offer the control of the

Indigenous smallholder grazing initiatives have recorded disappointing results in PNG. Fiji and in the Solomon Islands. The AusAID-funded Yalavou project in Fiji experienced problems from poor farmer selection, isolation from the traditional village setting, theft and back door 'asles. Indo-Fijian farmers in Fiji have a longer tradition of livestock rearing and have successfully integrated cattle and goats into a sugar cane/mixed cropping system, using tethering with minimal ferionic_lage pastoral units are present mainly minimal ferionic_lage pastoral units are present mainly cases under coconuts. There has been a decline in this sector in particular in Fijii, partly as a consequence of diminishing returns from copra production. There has been limited success, smally in PNG, with feedlotting.

There is scope in both PNG and Fiji to make greater

Poultry are being increasingly raised in intensive systems with considerable success being achieved with mailholder producers. This is more so where good contractual arrangements are entered into between the chicken processor and the growers under which day ods, feed and supervision/medication are all provided as an advance. Interestingly, free range chickens attract permium when sold live in Figi.

Women undertake a significant amount of work associated with the care of livestock in the rural island situation. They have a number of attributes which are well suited to managing farm animals although there are some restrictions when heavy activity is necessary It should be noted that women tend to place emphasis on livestock which have nutritional benefits i.e. poultry while men focus on financial returns i.e. cattle and on nigs because of cultural significance. Unfortunately, there is insufficient disaggregated data and other information available on this subject. It is important to ensure that constraints which restrict women from playing a more effective role are identified and addressed through training and other responses. This would appear to be a good subject for study, drawing on examples and experience from elsewhere. It is also vital for women to have access to the proceeds of sale or to other benefits from their efforts, as a reward and a motivational mechanism.

Veterinary Services

All PICTs possess some form of veterinary or para veterinary service. However, of the approximately 110 veterinarians in the region, over 50% are located in 2 French territories and Guam and while 12 PICTs now have no resident veterinarian(s). Fiji has 10 indigenous practising veterinarians, PNG 3, Solomon Islands 2, Samoa 5 and Tonga 2. The SPC Regional Animal Health Service [AHS] possesses 3 veterinarians, and while providing support to all member countries. endeavours to assist those without veterinarians in special ways. Diagnostic veterinary services are only available in the French Territories, PNG, Fiji and Vanuatu, Although livestock extension services are generally present, these are often short-staffed and poorly funded. Livestock research receives very low priority. While veterinary services are actively involved in meat inspection, much food safety is still largely under medical control. The lack of veterinary capacity within most PICTs is also a concern in relation to the technical requirements of trade liberalisation and facilitation. This is another region-wide concern which the SPC could be well-placed to address in a cost effective manner.

Trained veterinarians are a very expensive item and it is unlikely that there will be any real increases in numbers in the independent PICTs in the mid-term. The mainly small island countries currently without veterinarians therefore should receive special assistance from the SPC AHS. The region is vulnerable to disease introduction and losses in production due to diseases as well as to diseases of public health concern carried by animals. A concurrent shortage of animal production specialists further aggravates the situation. The initiative by the SPC to develop a Regional PARAVET Training Project is in response to a real need and is a most commendable one. The Programme comprises materials development, training delivery and the establishment of institutional infrastructure to support and sustain para-veterinary training into the future. It consists of 3 phases or sub-projects and pipeline plans to develop an advanced level course, focused on more specialized areas such as aquaculture, aniculture management and on projects supporting the development of women working in the sector. The PARAVET Project is currently in Phase 2, following the development of the initial training material. application to CD-ROM format and then piloting.

Disease Situation

The region is relatively free of many serious infectious dissease of animals. This envisels position has been assisted through relative geographic isolation, backed up by well enforced animal biosecurity. However, the risks of introduction have never been liberalization and the increased inclination of smuggling. There are no IEE List A Diseases in the region although Hog Cholera outbreak were recorded in 1972 in February 1972. The process was not the region although the contract of the region of the risks of introduction of the good of the result of the risks of introduction of the good of the risks of introduction of the risks of introdu

The region is, in some ways, a 'buffer zone' in an animal disease sense for Australia and also NA and therefore should have an important place in disease monitoring and surveillance. It is clear that the roles of the SPC Regional Animal Health Service and the PARAVET Project are central to this overall surveillance function.

Aquaculture

Surprisingly, the production of aquatic animals by aquaculture and culture-based fisheries is rapidlyincreasing in the region, despite some early failures. This trend is being reinforced by declining returns from capture fisheries. While food species such as fish, seaweeds and crustaceans are being targeted, in both fresh and salt water habitats, pearl and ornamental/ aquarium species are also important. It is estimated that the current annual value of aquaculture products in the region is US\$150 million.

The major concerns relate to the introduction of diseases and invasive species. These can have deleterious effects on indigenous species and ecosystems and can therefore impact indirectly on rural livelihoods, food security and public health. At the same time, intensive aquaculture production systems are associated with a range of aquatic animal disease occurs. Networking between the SPC, OIE, ACIAC etc. is assisting greatly in cooperation and information exchange. The development of policy and technical guidelines, in particular for the responsible movement of species and disease notification, are high priorities, are high priorities, are high priorities, except the production of the pr

Companion Animals and Animal Welfare

This is a segment of increasing significance in most PICTs and at least 3 developing countries now have indigenous private veterinarians and animal welfare societies. It is difficult to obtain figures on dog and cat ownership but in Fiji it is believed that one household in every 3 or 4 in urban areas possesses a dog. This would equate to some 15 to 20,000 dogs in urban zones alone. Dogs are important for property security and for feral pig hunting. They are now being valued more as pets, as education and standard of living rise and animal welfare gains a higher profile. However, uncontrolled breeding and increased strays is a matter of concern, from both a public health and welfare perspective. At the same time, losses of farm livestock from dog attacks have been an issue in some locations.

Awareness programmes on companion animal care are being implemented by animal welfare societies but these need greater support from other stakeholders. There is also increasing demand for desexing programmes and for more affordable veterinary services for low income earners. The wider question of the welfare of farm animals, also requires higher focus because of the impact inhumane management and handling can have on productivity and therefore on farm incomes. The SPC has been mandated to develop regional animal welfare initiatives and this includes the production of public awareness materials, provision of assistance for the establishment of national animal welfare societies and technical advice. The recent involvement by OIF in animal welfare, as part of its leadership role, is a positive development.

Environmental Impacts

Animal wastes from intensively resred spocies are a growing profilem. The lovel-lying mail coralline listands and atrolls are a spocial case because the water table is the main water source and, together with soil, can be very vulnerable to contamination. Effluent from large production units on the volcanic islands is also an increasing concern for streams and lagoons, often in close proximity to residential areas and tourist hotels. A collaborative initiative between SPC, USP, ACIAR and the University of West Sydney is assessing options for using this waste for fertilizer and energy and will propose abutions to pathogens in water sources. The possible need for experimental collaboration in the control of the control

III. Possible Interventions

The PICTs, situated as they are on Australia's doorstep, face a host of challenges. Within the livestock sector, the declining levels of veterinary service provision are of great concern. A number of areas exist for outside intervention, in support of enhanced veterinary services.

There is considerable need for capacity-building of PICT veterinarians working within government, including through attachments and participation in Australian-based activities, such as emergency disease simulation exercises. Institutional strengthening of veterinary services is another priority.

There are many country-level constraints in the livestock sectors, both existing and emerging, which veterinarians are best qualified to deal with. A significant number of these are common to several if not most PCTs. There is a strong case for the inpartmentily with other bodies such as ACIAR. The PARA VET Project deserves special support, given the declining number of PLCTs with veterinarians. [Outside the French territories and Guan.] These 2 responses underline the need to augment the resources and capacity of the SPC number of the PCT with the properties of the PCT controlled of the manifection of the SPC number of the PCT controlled of the manifection of the SPC number of the PCT controlled of the manifection of the better addressed.

As more PICT veterinarians work outside government on companion animals and animal welfare, visits by volunteer veterinarians from Australia could play an important role through mentoring, advice and capacity-building as well as in the provision of donations of second-hand equipment. The increased involvement of the SPC

in animal welfare on a regional basis is positive and could benefit from linkages with animal welfare societies in Australia. The National Veterinary Associations of PICTs are at very early stages of development and would benefit from having key officers visit Australia to observe and participate in AVA activities.

It is in Australia's interests for PICT germents to assign higher priority to veterinary services. Australia could therefore endeavour to assist in creating greater political awareness in this regard, within the PICTs and relevant regional organisations.

The potential for increased livestock production is significant, pione the current levels of imports as well as growing consumption, including from tourism. This will assist with improved utilitation of land where this is available, greater aconomic opportunity, enhanced food security and, in the process, will help contribut to poverty alleviation and to a better quality of life for Peptic Islanders. Vesterinarians and para-vestriany staff have an important role to play, working with other professions, both in protecting the region's aimfail health status and in increasing productivity of the lipsestock sector in a monor that is environmentally.

Cultural Factors Affecting Animal Health And Production In

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Abstract

The Papua New Guinea Tourism Promotion Authority advertises Papua New Guinea as "The Land of the Unexpected". This is due to the beauty, scenery, culture and topography the country can offer. There are more than 700 local language dialects and associated different cultural or social groups. Several farming systems are practiced in the country, involving both the crops and investoct. The dominant domesticated investors species are pig, cattle, poultry (phickens and Muscow) duckagi, goats and steep, it does not not consider the production problems are associated with poor management practices and to some extent internal-parasitism.

Cultural and social factors, which contribute to the animal health and production in Papua New Guinea, are discussed. These include the cultural values of animals, land tenure issues, demands on labour, methation, methation, methation, methation, methation, methation, and the factors will continue to affect and constraint factors will continue to affect and constraint the development of animal production with the land tenure system being a major constraint.

Key words: Unexpected, Culture, Social factors, Farming systems, Health, Zoonoses.

Introduction

According to the Papus New Guinea (PNG) Tourism Promotion Authority, "Papus New Guinea is the Land of the Unexpected". This is due to the beauty, scenery, culture and topography that the country can offer. In addition, there are more than 700 local language dislects and associated different cultural or social groups. The total population is just over 5 million.

Domestic livestock production consists primarily of beef, poutry and pork and to very limited extent sheep and goats. Pig breeding has remained primarily a smallholder operation, but cattle production is based on large scale, commercial operation. Small-scale farmers largely support commercial ooutry production.

Traditional subsistence animal production in PMG is based on pigs and chickens. Pigs in particular have played an important role in the lives of people of nearly all of the 700 ethnic groups of PMG. According to Baksu and Galgal 11994) there is no history of grazing animal management in PMG. However, there is evidence that pigs have been through the pigs have been country by Missionales of catality, sheep, goats and buffalloss are based on those introduced into the country by Missionaries, Plantation Settlers and

^{*} Paper presented at the Australian Veterinary Association Annual (AVA) Conference, 2-7 May, 2004, Canberra, Australia

Colonial Administrations as early as the 18th Century, mainly for the purpose of weed control under coconut plantations, draught power and selfsufficiency in fresh meat and milk supply.

There are several types of farming systems in Papua New Guinea that can be identified and classified according to the objective, purposes and Associates (1985) and Holmes (1988). An attempt is made in this paper to very briefly describe each group and how the cultural factors affect animal health and production.

1. Subsistence Farming

This system is largely independent of other farming systems and formal institutions. The dominant input into the system is labour and land. It is categorized by a low level of cash cropping and an almost total dependence on the staple crops, which vary by regions.

The objective is to produce staple food like tars, sweet potato, yams, beansas and sage for the nutrition of families participating in the system. Pigs in some cultures are required to maintain social status within the community. The purpose of the system is the survival of its participants and to describe the survival of its participants and to describe the survival of its participants and to describe the survival of its participants.

2. Smallholder System with Livestock

This system includes approximately half the total rural population and participants are defined as those who produce more than 25 percent, but less than 75 percent of their output for cash sale. Most farmers have a livestock component in their system and full range of species may be found. The principal activity may be seen to the principal activities as real number are predominantly livestock farmers on extensive grazing areas.

The participants aim to diversify use of their land and crops may occupy most of the land to which they have access. Livestock, while usually subsidiary to the cropping activity, are often integrated with it to make use of waste products or fallow land.

The prime purpose is to generate cash income and to maintain a reasonable degree of self-sufficiency in staple food production. Individual families or kinship groups operate this system. A large proportion of the national coffee, cocoa, coconut and spice such as cardamom output is

derived from smallholders who are also significant producers of staple foods.

3. Commercial Mixed Farming - Grain Livestock

This systems contains large-scale company owned enterprises presently mainly with expatriate management. This system is limited to the Upper Ramu and Markham Valleys and to a small area in Central Province, but includes the largest producers of grain, cattle and jegs in PNI. They produce beef and pork for formal markets and replace imported feed grains for the intensive pig and pouttry

The objective is to produce grain, beef and pork. The system produces grain for animal feed and meat for urban consumption. The purpose of this system is profit. In the case of the pig enterprises large amounts of animal manure are generated to augment fartilizer for grain.

Land and labour are direct input while capital is used to purchase other inputs like seeds, fertilizers, machinery for cultivation, planting and harvesting, grain drying facilities and labour.

External linkages with traditional cultural practices (small holders subsistence producers) are very weak, although there is considerable potential for customary land to be used for grain production on a share-lease or lease arrangement. There are strong linkages with commercial traders, both as sellers of injust and buyers of outputs.

There are reasonable levels of expertise in management, machinery use, livestock handling facilities and ability to control cattle and, significant influences on beef prices, access to steady marks in the beef and grain industries. Limited financial backing, cultural practices and lack of involvent of traditional landowners in some cases adversely influence management decision.

Commercial Mixed Farming – Tree Crop Livestock System

Under this system, managers operate large-scale commercial plantations usually company owned, while many small plantations usually company owned, while many small plantations are owner operated. The major resources are the land, capital and launcy Capital input concerns management, tree crops, corporcessing facilities, machinery, fertilizer, livestock and livestock handling facilities. Large plantations often own the land rather than lesse it.

According to Quartermain (1979) 48 percent or Ashworth and Associates (1985) 14 percent of the cattle populations of PNG graze under coconuts. The majority of smallholder draught buffaloes are also found under coconuts.

The objective is to produce cash crops and to produce beef cattle. The purpose is financial gain.

Cash cropping is the dominant consideration with animals usually being seen as a weed-controlling device. The outputs are the tree crop-products, by-products, waste and meat. Manure can be regarded as an output if there is some form of fetrility transfer from non-crop areas to areas under tree crops.

5 Commercial Ruminants

Many commercial ranches are operated by Government Agencies, often with expatriate management. They make use of land which has limited natural fertility and which has not traditionally housed extensively for food cropping. The land is usually under lease agreement. This system is an under lease agreement. This system is all properties of the system of the properties of the system of the properties of the system of the properties of properties properties of properties proper

The objective of the system is some economic galles in using extensive areas of grassland for livestock production. The purpose is to earn income and to produce young cattle for sale to smaller scale livestock producers. High-grade bulk scale livestock producers. High-grade bulk scale. Minimum work is done on pasture improvement even though some good quality forage seeds are available locally. Machinery use is under utilized and imported furtle is expensive. Capital inputs are considerable, mainly in feeding, localing, livestock and employment of experiment.

6. Commercial Non-Ruminants

These systems supply the bulk of the formally marketed poultry meat, eggs and pork. Enterprises are concentrated at few locations close to main feed production and demand centers.

The objective is capital-intensive, high technology commercial production. They operate for financial gain and also supply chicks for small-scale meat bird production. They are operated by a few large companies supported in certain cases by, medium or small-scale outgrowers. The system involves high or small-scale outgrowers. The system involves high order of small scale of the system involves high order of small scale of the system involves high order of small scale of the system involves high order of small scale of the system in the system of the system

feeds. The output may require high technology processing facilities.

They include breeding, hatcheries, feed milling and meat processing. Production is totally controlled or is contracted to private entropreneurs.

These systems are strongly linked to feed supplies, overseas supplies of breeding stock, processing facilities, marketing channels and support services such as electricity and water.

Animal Health

An overview of livestock in PNG shows that it is free of many of the major diseases, which affect animals in other parts of the world (Ashworth and Associates 1985, Asiba 1989, Kanawi et.al. 1994). The main animal health problems are associated with poor management and poor nutrition, including failure to control internal parasites, or correct mineral deficiencies (Quartermain 1979, Asiba 1995, 1996), A good example is at the subsistence farming system level where the village animal producers adopt minimal animal disease control measures. Most grazing animals are run on an extensive basis and animal health problem are minimal. Under such situation. however, mineral deficiencies become a major concern.

Diseases Encountered

Anthrax, pneumonia and internal and extend parasites in pigs: tick, *Boophius microplus*, buttnal fly and mineral deficiencies in cattle; internal and external parasites in sheep and goats and poor management practices. Screw worm thy (*Chysomysbazziana*) is a problem in all species. Powitry diseases are mostly associated the birds to interestion.

Endemic Zoonoses

The animal diseases, which are known to be present in PNG which are transmissible to man include porcine brucellosis, anthrax, mellodosis, erryspiels, leptospirosis and admonellosis. Bovine brucellosis has been eradicated by the property of the property

listed in the Animal Disease and Control Act. For example, foot and mouth disease, rables, cysticercosis, swine fever and African swine fever and new castle disease.

Cultural or Social Factors

There are certain social and cultural factors needed to be discussed here that may affect animal health and production in Papua New Guinea.

1. Livestock

Pigs are by far the most important animals in the economy of PMS. Besides pigs, dogs and poulty are the only other domesticated animals, with which most people have contact. Other introduced domesticated animals and types of management involved are new concept, for example keeping cattle in fenced paddock, in an enclosed space of any kind, or tethered.

In PNG cultural value of pigs is well known, however, at present main exogenous animals (cattle, sheep, goats) are also almost equally valued. They have entered into the exchange system practiced in the country. In many societies people system practiced in cert pigs reared within their own households. Seventh buy a synthing with pig in general. Either sheep or goats had substituted pigs in this faith.

Cattle are larger and stronger animals and are feared by people during handling. Fear may result in lack of handling and this may result in cattle becoming wilder and therefore induce greater fear. Cattle are large animals compared with goats, sheep and or pigs and, considering family consumption, the small soecies are more beneficial.

2. Alternative Source of Income

Comparing livestock to crops, the latter bring in ouck money at regular intervals, say once a year as with coffee when it comes to production. Livestock like cattle or pigs take longer to reach marketable size and social obligations may be delayed.

3. Land

There are variety of customary land tenure systems more or less modified by post-contact factors. For example, in some societies (culture), land is passed on from the mother to the daughter(s) inartilineal and in others from father to son(s) (paternal). In others land is communicially owned and several groups or clasm may own the land.

Conflict over land is very widespread and this may render some areas unusable. There is an increasing resistance among land holding groups in some area to allow land to be used for each crop purposes rather than livestock since construction of fences and animal handling facilities may be taken or viewed as dividing the land.

4. Labour

There is a constant demand for employment of local labour, especially on government agency run farms or where the land is being leased to the government. Failure may result in damage to facilities or loss of animals. Demands are also made for animals for Christmas parties or other local activities by the landowners.

There is out-migration of young male from the less privileged to more privileged areas. This creates a situation where mass of the population is left with the famale or elderly.

5. Motivation of Clansmen

Security of livelihoods and social status are key elements in motivation. For example, among men who have initiated and established a livestock and other project within the community that improves the living standard, status is enhanced. This has been reported for the large-scale development of Debugger of the state of the state

6. Tribal Fights

Whenever there is tribal warfare or fighting, it always results in destruction of properties, including livestock and crops. Livestock are further included in the compensation payment after the fight.

7. Marketing

Animals sold on the singsing (ceremonial) market. Therefore owners prefer to retain their animals until singsing market arises. This may lead to overstocking and overgrazing which then results in increased losses.

8. Managément Skill

In general management skills are lacking at the smallholder level, especially regarding the husbandry of introduced domestic species (cattle, sheep, goats).

9. Social Obligations

In some cultures pigs are only consumed on certain occasions such as those arising from compensation or bride price payments. The most interesting phenomenon is that experienced in the Highlands Provinces where several cleans come together in pig killing ceremonies. Large number of pigs are killed and exchanged.

Social obligations may also result in the spread of a disease. For example, from personal observations if a pig dies of anthrax the carcass may be given away to a neighbouring village as a compensation payment, bride price payment or in settlement of other debts incurred previously. Transborder crossing between deep the did indonesia may introduce Cysticerosis to PNG Banks 1988.)

Conclusion

Whatever farming system is practiced in Papua New Guinea, cultural factors will always have some effects for some animal health and production. The major factor is the hand tenure system, a problem, which the present shand tenure system, a problem, which the present there are government is attempting to solve. At present there are no major viral and bacterial diseases in the country, when we experienced overseas, but there is a possibility of introducing them.

Acknowledgement

I would like to acknowledge the Commonwealth Veerinary Association for the sponsorship, allowing me to attend this Australian Veterinary Association Annual (AVA) Conference. I also acknowledge Dr. W.J. Pryor and Dr. Robin Yarrow for their continuous contact by email with regard to this conference. Finally, I would take this opportunity section of the conference of the comments, criticalism and correction to my same.

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 Fill the unforgiving minute with sixty seconds worth of distance run

~ Rudyard Kipling (1865-1936)

Dolphin Harvesting In The Solomon Islands - A Clash Of Cultures*

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Solomon Islands in Brief

Solomon Islands is an archipelago of islands, East of Papus New Guinea and North-east of Australia. Discovered in 1568 by the Spanish, attempts in later years to colonize the islands by the Spanish failed. This was followed by the early blackbiding and the Indentured labour recruiting for the cane fields and the banana plantations of Australia and the other Petric islands. Solomon Islands was declared a British Protectorate in 1832 and got its political independence for Mostronia State political independence for Mostronia et System of Government, where the Queen is represented as the Head of State by the Governor General.

From 1999 to 2003 the country was forn apart' by ethnic conflict. Solomon Islands has been the headline news until the intervention in mid 2003 by the Regional Force headed by Australia and New Zealand to bring back law and order.

Inter-Island Cultural Clash

Dolphin is a very sensitive topic locally as well as internationally. Objphin hunting, harvesting, circulas and worshipping has been a tradition and an integral part of siland cultures for centuries. Offerent island cultures for extensive soft control of the co

Other cultural groups on the island of Malaita us dolphin hunting as a ritual and ritor of passage for voung men to adulthood. These groups also use dolphin testin as traditional currency to pay compensation, bride price, settling disputes, purchasing land and other agricultural produce. They also use the test in decorations and as ornaments. These activities are principally subsistence in nature.

Other cultural groups from the central and western parts of the Solonno islands regard dolphins western parts of the Solonno islands regard dolphins as totally sacred. Dolphins are seen as associates of the gods and the spirits of the sea and are regarded as a re-incarnation of the ancestral spirits. These groups have their tribial members not to touch, interfere or have anything to do with dolphins a contact with dolphins bring bad luck and eternal curse. They also ban their waters from being hunted for dolphins by the dolphin hunting communities.

Other remote cultural groups from the outer-lying islands in the east, south and north of Solomon Islands regard dolphins as friends from the sea. They are referred to as navigational aid that can assist you to finding land when you are lost at sea. They can also prevent shark attacks when you are floating in the water after your boat or cane is casesized.

The dolphin hunting and harvesting communities in which 3 are still active kill between 100-300 dolphins per hunting season. Anecdotal information suggests that the cumulative total catch of 600-1000 dolphins are killed each year by these communities.

Inter - Global Clash

The population surveys done in the Solomon Island waters show that there are 15 species of marine mammals that are present. The surveys show abundance figures of 700,000 to 950,000 dolphins in Solomon Islands territorial waters which is an area of 1.2 million square kilometers of seawater.

The most noted dolphin species is the Tursiops pp (Bottlenos dolphin) and this is also the most caught dolphin species. Other species are also included in the catches and these include the stendel spp, and porpoises. For the last 10 years population studies show that the dolphin population studies show that the dolphin population delicated the studies of the studi

^{*} Paper presented at the Australian Veterinary Association Annual (AVA) Conference, 2-7 May, 2004, Canberra, Australia

Arguments from the Western cultures that dolphins are intelligent and therefore is morally wrong to kill dolphins cannot be comprehended by a villager from the dolphin hunting communities who would argue that they see no difference from killing of pigs, sheep, cattle and horses for food.

On the issue of exploitation as highlighted by overseas groups that one live dolphin sold to the export consortium by the Solomon island dolphin fishermen for USSO.00 (SIR4,000.00) is later than oward argue that USSO.00 (SIR4,000.00) is later than traditional bartering or salling which can only fetch around US\$15.00 (SI\$40.000,00 is batter than traditional bartering or salling which can only fetch around US\$15.00 (SI\$40.000,00 is batter than a traditional bartering or salling which can only fetch around US\$15.00 (SI\$40.000,00 is money around US\$15.00 (SI\$40.000,00 is money around US\$15.000,00 is 100.000 in the meat and texthe around CS\$40.000,00 is 100.000 in the control of the control o

Villagers have now argued that they are no longer killing dolphins but capturing and selling live animals for a better return. The numbers that have been caught have reduced greatly compared to numbers caught during traditional dolphin hunting sessions.

The central Government is putting pressure on export consortiums to invest some of the profit back into the disphin hunting communities. This is an area where dolphin hunting communities have always argued that foreign vocal groups always criticize their activities but would never come up with practical alternatives or to finance projects that these dolphin hunting communities can get engaged an adubatiture that for dolphin hunting and killing. The villagers find it very offensive and further than the communities can get engaged an adubatiture that for dolphin hunting hunting that the communities of the communitie

Political Clash

The Solomon Island Government has been under emmous pressure from International Donor Agencies, Foreign governments, Non government organizations (NGO), environmental groups, animal rights and liberation groups to impose a total ban on dolphin hunting, capture, killing, utilization and recently export of live dolphins.

The government recognizes and respects the tradition and culture of its people and therefore no government will ever ban the traditional right of the people to harvesting and utilizing this resource and the social and relicious activities involving dolphins. It will be political suicide for any government or political party in the Solomon Islands to restrict or ban traditional dolphin activities. Successive governments have had ruling majorities in the 50 cast parliament with 5 members or less. The current government has a parliamentary majority of 4 seast. Dolphin hunting communities have 7 representatives in parliament of which 5 are with the government. A swing by these representatives will mean the downfall of the government. governments and vocal groups, the Solomon Island government has to handle this issue of dolphins with great caution.

The Government's policy is to convert renewable resources into money provided it is utilized sustainably through proper conservation and management based on sound scientific data and population surveys for the maximum benefit to its people and the country. To ease pressure the Solomon Islands government decided to consider other alternatives and these includes.

- 1. Eco-tourism and eco-attraction parks
- Capture and sell of live dolphins to foreign zoos and marine parks instead of the traditional capture and kill.
- Breeding in captivity for future sale. although this may be too technical and expensive for the village communities.
- 4. Set up quota systems to control catches.

The government's idea and intention is to come up with compronise activities that would satisfy all sea activities that would satisfy all seasons of the community. In 2002 the Solomon Island government set up the first export quate at 100 dolphins per year under provisions of its Fisheries Act to 1998. The total quota of 100 is based on sciential quota of 100 is based on sciential quota of 100 is based on sciential provisions of the provision o

The first License for a joint operation was issued to a Canadian construint. The local dolphin fishermen are to be utilized for their hunting and capturing skills while the consortium is to buy the dolphins and to provide all the necessary requirements to meet export criteria. Local and overseas veterinarians will be engaged in providing all the necessary veterinarys when the capaged in providing all the necessary veterinary health care at the consortiums expense.

The project began with 56 captured dolphins but only 28 dolphins satisfy all the requirements for export. These dolphins were exported to a marine park in Cancun city, Mexico. This brought widespread criticisms from London to New York Brussels to

Canberra and Wellington. It was even brought up in Parliaments of these Western countries by the Green and Environment parties. The Government of Mexico under pressure then suspended further imports of dolphin from the Solomon Islands. The reason for this suspension is not clear to date.

The Solomon Island government argues that it is not alone in the utilization of mainrie mammals. Many countries kill these animals directly or indirectly and turning a billed yee on the issue. The United States until the properties of the state of the

The Government wishes to point out that 30,000 dolphins and other marine mammals are caught and discarded by Purse seine fishing fleets globally each year (BBC World Report 24th July, 2003). In the Eastern Pacific dolphin mortality associated with tuna purse seining is approximately 2,000-3,000 each year (IATTCI Report 2002).

When we come to consider a commercial quota of 100 animals annually in which only 28 animals was exported in 2003 and a dolphin population of 700,000 - 950,000, the dolphin fishermen and the Solomon Island government believe that the figure is very sustainable and saw no reason for all the foreign criticisms.

Welfare Clash

The welfare of the dolphin is an area of concern to activists and environmentalists especially those from the Western cultures. Due to the numerous allegations the Solomon Islands Department of Fisheries invited Solomon Islands Department of Fisheries invited independently the welfare of the dolphins held at the facility. On August 2003, a combined team was organized which included representatives from the diplomatic missions, dolphin experts, disease specialists, welfare experts and representatives of other overseas concern groups to see if the facility meets assess the level of animal stress at the facility.

The findings show that the facility meets the Animal and Plant Health Inspection services (APHIS) standard of United States at high and low tide and also satisfied the Australian and European animal care standards at high tide but may be marginally satisfactory at low tide.

The International Cetacean Group (ICUN) that was supported by the foreign Environmentalist most conservation groups also made an independent report. The report was in favour of the facility meeting most requirements and this did not go well with the groups that sponsored the trijo. This vocalearly that the intention of the sponsors was totally different.

The level of stress and risk to animals in light of areas such as

- a. feed
- h. water
- c hacterial levele
- d. animal care in terms of person per animal
- e transportation was also assessed

The findings report that a total of 39 dolphins, including a 3 month old calf born in captivity, are well fed. Animals are fed 4 times a day or total of 8 kg of fish per animal per day. To the local fishermen this is an additional income of \$20,000.00 per month of fish.

Large pens are 110 m long by 60 m wide and small ones about one third of this, Water flow from inoughing and outpoing tides plus the different directional current flower provide good flow to holding pens. Bacterial lugious is minimal as compared to the static pools in most artificial and mar-made aquaritums and marine parks. This facility with clear, pristine and unpolluted waters are natural. Despite this, it is a recommendation that any facility will have to do monthly water bacterial tests and monitoring.

The facility employs 40 people and this is a ratio of no person per dolphin. Two qualified vestrainrains are engaged in the daily health care of the animals. The animals have more doctors compared to humans in the Solomon Islands. Currently the majority of dolphins are now hand fed which indicates that the level of care is improving and satisfactory.

Capture and transport of live dolphins is only encouraged if the area of capture is within proximity of the facility. Transporting dolphins over long distances is not encouraged especially when there is no proper training and equipment for the local handlers and the risk of animals receiving injuries in the transportation is high. The requirement by some overseas groups from developed countries in terms of Infrastructure to meet welfare requirements may be unnecessary as it is financially expensive for a developing country as Solomon Islands and may only be cosmetic in nature.

Veterinary Clash

A lot of foreign vocal animal groups have been active in lobbying their Governments to send up veterinarians to assess dolphin welfare and matters relating to dolphin health. However, a lot of these Foreign Governments have rejected the idea as it is an infringement in the country's internal matters and sovereignty. It could only be done on the invitation of the Solomon Island Government through its veterinary / livestock department, ministry of Agriculture.

The veterinary profession and association has been accused of corroborating with dolphin exporters and dolphin fishermen and have done nothing to address the issue of dolphin hunting, capture, killing, harvesting and export.

The Solomon Island Veterinary Association (SIVA) has responded to these allegations accusing foreign NGO's, animal liberation, animal rights groups and animal lowers of gross unfainness and the bitant attacks that are only dictated more by personal emotions than anything size. The properties of the

To question the cradibility and seademic background of members of the Solomon Island Veterinary Association, as some groups have done would mean questioning the validity of the veterinary schools and faculties that these veterinarians graduated from which in our view is outside the point of argument. Solomon Island veterinarians graduate from any third world countries.

The veterinary profession in the Solomon Islands is only providing a facilitatory role as far as dolphin activities are concerned. The Department of Fisheries, Environment and Conservation is the Issuing authority for permits and Idensess. The veterinary profession blood tests and any veterinary medical/aurgical requirements in order that dolphins are healthy and meet export requirements.

In veterinary public health, as required by the public health by-laws, all animal meat sold in urban centers has to be inspected and certified healthy and fit for human consumption. The veterinary profession provides this service to the community.

The Solomon Island Veterinary Association (SIVA) respects the culture and tradition of its people and its members. The Association is currently trying to draw up working guidelines with regard to dolphin issues.

The SIVA members are representatives of the different cultural and traditional groups. Two of our members are representatives of the cultural group that regard dolphins as totally sacred and they will have nothing to do with dolphins. Even attending to treatments or inspection and certification of meat as required by the public health by-laws.

There is also a veterinarian from the dolphin eating community. This veterinarian always talks about the low fat and leanness of dolphin meat and recommends it for weight watchers.

The fourth veterinarian is a representative from the dolphin catching area that uses dolphin teeth for decorations, ornaments and in dowry and bride price.

The question here that needs to be addressed by SIVA in regard to some of its members is, which takes precedents, your cultural and traditional belief or the ethics of your profession. Can these veterinarians be held liable for professional megligence on their part as veterinarians if they refuse to provide veterinary attention because of their cultural heliefs?

A lot of foreign animal rights and animal lovers asceretly waging war against practices and veterinarians who are involved in dolphin activities. These veterinary practices are seeing clients change practices. Solomon Island is a small country and therefore nothing is secret.

The issue of dolphin health and care has brought in another line of animal for the Solomon Island veterinarian. With marine veterinarians and dolphin experts from the United States working together with local veterinarians, it gives the local counterparts exposure and experience in marine mammal aquatic medicine. The International Association Animal Aquatic Medicine (IAAM) has strongly encouraged Solomon Island local veterinarians to join the association and be part of uniternative properties.

the international pool of aquatic veterinarians. Solomon Island veterinarians have an advantage in that the number of dolphins available to them for exposure and training in medicine and surgical procedures is enormous.

The SIVA is encouraging all its members except those for cultural and traditional reasons who cannot work with dolphins to take alternating time out to work with the American aquatic veterinarians to get more exposure and experience in the daily health care of dolphins. This is an advantage and a bonus for our local veterinarians

Conclusion

The issue of dolphin harvesting in the Solomon Islands, whether traditional or commercial has brought about numerous criticism and clashes locally and internationally. The Solomon Island government recognizes the sensitivity of the issue and the potential it has to unseat any government in power. Therefore, the government has to handle the dolphin issue with great caution and to come up with compromises to satisfy parties who have vested interest in the dolphin issue. The Solomon Island government also knows the notential of utilizing its marine resources to bring in foreign currency provided that it is done on a sustainable level based on good scientific, management and conservation data.

Despite all the criticisms, the rights of the people to their cultural, traditional and religious practices cannot be restricted or hanned as this would be a denrivation of the fundamental human and democratic right of the neonle

The local veterinary profession is also caught up in this clash of dolphin issues. In spite of all these clashes the veterinary profession and members of the local veterinary association stand to benefit enormously in the dolphin knowledge, exposure, experience and technology that is brought to their country by experts and specialists in this area. Local veterinarians do not need to travel overseas to gain this knowledge but they can remain at home and still can practice in this field. With the influx of foreign dolphin experts. specialists and the readily available animals to practice on, the local veterinarians will one day be experts also and will be able to pass on this expertise for the betterment of the veterinary profession.

Reference

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How To Read A Pet Food Label

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"Knowledge is of two kinds. We know a subject ourselves, or we know where we can find information on it."

- Samuel Johnson, augted in Boswell's 'Life of Johnson'

In the majority of countries, there is little government legislation regarding the labelling of pet food. There is often no legal requirement for the label to display information about the product, or for the food to be nutritious or safe, Instead, there are various pet food industry associations that represent the local pet food manufacturers and set standards for labelling claims. The Pet Food Industry Association of Australia (PFIAA) is an example of such an organisation. Its members include all major and most of the smaller pet food manufacturers in Australia, and associations are maintained with the

Australian Companion Animal Council, and the Australian Veterinary Association. PFIAA maintain a code of practice for standards related to labelling, marketing, and nutritional design and claims. It aims to protect the interests of consumers and establish standards for selfregulation of the industry.

The Association of American Feed Control Officials (AAFCO)-is internationally recognised as the organisation that sets the most rigorous and comprehensive standards for pet food labelling claims. Most national pet food industry associations, such as the PFIAA, base their nutritional and labelling requirements on AAFCO standards.

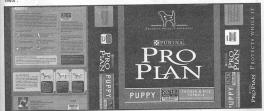
AAFCO dog and cat nutrient profiles define the minimum requirements of all nutrients for each species and life-stage, as well as the maximum requirements of selected nutrients. The labelling term 'nutritionally complete' indicates that all required nutrients are present in the food in adequate quantities, while 'complete and balanced' indicates that all required nutrients are present in the proper proportions as well as in adequate quantities. The pet food labelling term 'formulated to AAFCO standards' indicates that the food has been formulated to meet the AAFCO nutrient profile for that species and life-stage. It is important to realise that if a label claims that a dog food is 'complete and balanced for adult maintenance', then that food will not necessarily be complete and balanced for dogs at other life-stages, such as growing pups, breeding bitches, or performance dogs.

If a diet contains all required nutrients, it does not automatically mean that those nutrients are available to the animal when the diet is consumed and digested. Pet food formulations that meet AAFCO standards can be additionally tested by AAFCO digestibility feeding trials. This is the preferred method for substantiating a nutritional adequacy claim. To meet these requirements, diets must be tested by long feeding trials where animals at the required life-stages are fed only the test food and water while being monitored for nutrition-related disorders. When a dog or cat food meets this high standard, the following statement may be included on the product label: 'Animal feeding tests using AAFCO procedures substantiate that (Name of Product) provides complete and balanced nutrition for (life-stage)'. In certain circumstances, pet foods with very similar formulations may be considered comparable to those that have been tested by AAFCO digestibility feeding trials and this statement may appear on the label: '(Name of Product) provides complete and balanced nutrition for (life-stage) and is comparable in nutritional adequacy to a product which has been substantiated using AAFCO feeding tests'.

In some countries, it is a requirement that pet food manufacturers include a brief nutrient profile on their product labels, which outlines percentages of crude protein, crude fat, crude fibre, and moisture. This may take the form of a 'guaranteed analysis' of the minimum percentages for crude protein and crude fat and maximum for crude fibre and moisture. Importantly, this represents the 'worst case scenario' for levels of nutrients and does not reflect the exact or typical amounts of these nutrients. Alternatively, a 'typical analysis' may be supplied. indicating the average of the nutrient levels calculated from several samples. Actual nutrient levels may be within 10% (above or below) the stated 'typical' level. Knowledge of the moisture content of pet foods is important for calculation of the dry matter content of individual nutrients. A common mistake is to confuse the percentage of crude protein, fat, or fibre listed on the nutrient profile on the product label with percent dry matter (%DM) content for those nutrients.

Most pat food product labels contain an 'ingredient list. For products that meet AAFCO standards, all ingredients are listed in descending order by weight and ingredient names conform to the AAFCO aname (e.g. poutry by-product meal, corn glutten meal, powdered cellulosel) or air dientitier uitse do not necessarily apply to ingredient lists of products that are not formulated to AAFCO standards.

As label information on the nutritive value of a per food product may be quite limited, it is particularly serful if the full contact details for the manufacture are supplied on the label. Ideally, a local telephone number should be included for sech country that the food is sold in. This allows consumers to easily request additional information on the nutritive value of the product from the manufacturer.



CALENDAR OF EVENTS

2004

- 8th International Conference on Goats, Pretoria, South Africa, July 4th 9th.
- 56th Annual Convention of the Canadian Veterinary Medical Association, Quebec. July 7th 10th.
- CVA Executive Committee Meeting in conjunction with SAVA Congress, Cape Town, South Africa. July 27th 30th.
- CVA Regional Meeting of ECS African Region, Lusaka, Zambia. 4th 6th August.
- 11th International Conference of the Association of Institutions for Tropical Veterinary Medicine and 16th Veterinary Association Malaysia Congress, Petaling Jaya, Malaysia. August 23rd 27th.
- BVA Congress, Cavendish Conference Centre, London, UK. October 1st 3rd.
- 13th Federation of Asian Veterinary Association (FAVA) Congress, Seoul, Korea. October 25th 27th.
- CVA Regional Meeting of Australasia/Oceania Region and Workshop, Lae, Papua New Guinea. October 28th November 1st
- CVA Regional Meeting of Canada Caribbean Region, Port of Spain, Trinidad. November 9th 12th.

2005

- CVA Regional Meeting of Asian Region, Lahore, Pakistan. September (Date to be announced)
- CVA Regional Meeting of UK/Mediterranean Region. (Date and Venue to be announced)
- CVA Regional Meeting of West African Region. (Date and Venue to be announced)

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