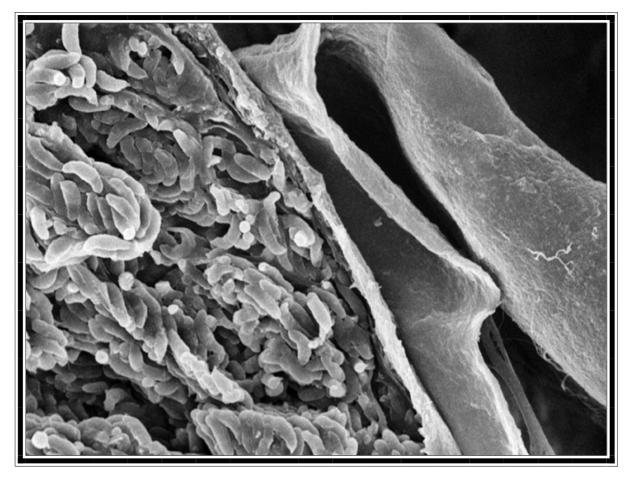


the australian society for parasitology inc.

ABN 65 979 686 445

NEWSLETTER

http://www.parasite.org.au/



Scanning electron micrograph of periphery of macroscopic cyst of *Sarcocystis gigantea* from sheep

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australian society for parasitology inc.

NEWSLETTER page 1

THE AUSTRALIAN SOCIETY FOR PARASITOLOGY INC.

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From the President's Desk

What is it exactly that the Council of the Australian Society for Parasitology does? Our Constitution sets out our object (indeed that of the Society as a whole) as follows: The Society fosters association of persons interested parasitology, in fosters establishment and proper curation of collections of Australian parasites, and, by intercourse and discussion. facilitating promotes investigation advances and knowledge of parasitology.

This sounds pretty good and, by and large, is achieved by the Society very well. In the last couple of years, however, the activity of the Society has been ratcheted up a notch by our collective sensing of that excellent parasitological phenomenon Red Queenism: if we don't start running we will be left well and truly behind. The key response of our Society so far has been the production of our Issues paper (in conjunction with FASTS) and by such initiatives as the organisation of the visit to our scientific meeting by the Minister for Science. Where has this activity taken us and where should we go next? These are complex questions that are exercising your Council right now.

Two broad possibilities were canvassed at the recent Council meeting. These were that the Society should seek to fulfil its role by further promotion or parasites, parasitism and parasitology. The second was that we should seek to support specific initiatives associated with our discipline. Effectively this latter idea means that we should support or even lead initiatives seeking funding. The attraction of this idea is that the society may be able to achieve (and point to) concrete outcomes in terms of research centres, fellowships or other funding. The conclusion of Council was, however, that although attractive, the second path should not be followed (at least for now) because it raises the prospect that the Society may be between forced to choose competing proposals to be given our *imprimatur*.

If we are NOT going to plan to support individual initiatives, then what will An idea presently on the Council we do? table for consideration is that we should seek develop a state-of-the-parasite-nation to document. Early discussions have suggested that we might seek to base one of our scientific meetings around this theme. The idea would be to detail the parasites and parasitic diseases that are present in Australia, their importance and prospects for control. The subject might be divided into parasites of medical. veterinary and aquaculture importance. In addition, we might summarise our knowledge of the parasites of wild animals, consider the threat of emerging diseases and define our role in contributing to parasite research and control in our region. Finally, we might consider the state of our discipline, where our expertise lies (as we all know we are a disparate bunch) and if there are specific weaknesses that should be addressed.

These deliberations might give rise to both pithy documents for specific lobbying of the powers that be as well as a lengthier document that might form a blue-print for future historical comparisons. That is, if we organise our information appropriately, we may be able to use it to see how we have progressed in 10 year's time.

At present these are just ideas. The detail and the reality are still to be determined. The question of "where next?" is considered a very important one by your Council and, along with the organisational minutiae, **THAT** is what your Council will be doing on the Sunday before our scientific meeting begins in Darwin.

The meeting in Darwin looks like it will be a terrific one. If you have not registered yet I encourage you to do so and I will look forward to seeing you there.

Tom Cribb, ASP President

ASP Newsletter Editor

At their last meeting in March, the ASP Council appointed Malcolm Jones as the next ASP Newsletter Editor to replace Peter O'Donoghue who is stepping down from the position after 10 years service. Malcolm should be known to many ASP members as previous Queensland representative, cestode guru and electron microscopist extraordinaire. Malcolm has extensive research experience and has eclectic tastes in parasites. He is renowned for his dry satirical sense of humour, an attribute which he will find invaluable as Newsletter Editor.

Malcolm has been appointed for a three year term and will manage the Newsletter accounts through the University of Queensland trust account. All future contributions to the Newsletter should be submitted electronically to:

Dr Malcolm Jones Molecular Parasitology Unit Queensland Institute of Medical Research 300 Herston Road Herston QLD 4006 Tel: (07) 3362 3131 Fax: (07) 3362 0104

Email: malcolmJ@qimr.edu.au



INCOMING MAL



OUTGOING POD

Adieu: As retiring Newsletter Editor, I would like to thank everybody that has been involved in its production over the last ten years. I have thoroughly enjoyed the task of collating your submissions into a collegial chatty newsletter. It has always been informative, seldom laborious and often humorous. Please keep the gossip flowing and give Malcolm the same chance to have fun with your words. I will look forward to reading about your shenanigans over the next ten years and hope the Newsletter does not get lost in cyber space. Please continue to support this bit of tangible evidence that we all have something in common and like what we do. Long live parasitology!! *Cheers, POD*





Dear Colleague

I have recently been appointed by the Australian Society for Parasitology as Editor-in-Chief of the International Journal for Parasitology. I would like to thank the Australian Society for Parasitology for their confidence in me and the Faculty of Veterinary Science at the University of Sydney for allowing me the time.

New contact details now appear on the website http://www.elsevier.com/locate/ ijpara, inside the cover of Volume 33 of the journal as well as below.

The Journal comes to me in good shape. Alan Johnson, and other previous Editors-in-Chief have built up the reputation of the Journal so that it now ranks very highly in the field and publishes some of the best papers in parasitology. Alan's efforts have been outstanding and we all thank him for that. His legacy is not only high standards but also an efficient editorial process and, the most important ingredient of an excellent journal, a dedicated community of willing Specialist Editors and referees. Further, Maria Meuleman has moved across to the University of Sydney so that the excellent editorial assistance that she provides will continue

My challenge is to maintain the high standing of IJP. The journal's credentials are built on sound Aims and Scope, the submission of excellent manuscripts, active Specialist Editors, effective and impartial review and efficient peer editorial procedures, including a good relationship with Elsevier, the publishers. In order to best serve the parasitological community and the advancement of our important science I hope you can all continue to submit excellent papers to IJP and, when asked, to fairly and efficiently referee the papers of your peers.

Contact details:

Associate Professor Nicholas Sangster Editor-in-Chief International Journal for Parasitology Faculty of Veterinary Science Building B14 University of Sydney NSW 2006 Australia

Ms Maria Meuleman Editorial Assistant

E-mail: IJP@vetp.usyd.edu.au Telephone: +61 02 9351 7130 Facsimile: +61 02 9036 9485

New Instructions for Contributors

See IJP Home Page:

http://www.elsevier.com/locate/ijpara





REPORT OF ASP COUNCIL

Report of ASP Council Meeting 28th March 2003 Queensland Museum

Present: Tom Cribb, Rob Adlard, Craig Hayward, Dave Jenkins, David Piedrafita, Carol Behm, Rob Gurney, Ian Whittington, Russ Hobbs, Mal Jones, Peter O'Donoghue, Lois Small, Wendy Cooper, Michelle Crossley, Nick Sangster.

Apology: Andrew Thompson

Before the meeting started, DR gave his thoughts on the funeral for Sue Newton which he had attended on behalf of the ASP the previous day. The Council observed a moment of silence in her memory.

Minutes of previous meeting: accepted

Matters Arising:

TC reported that Dr John Hickman (member of ASP now retired) who was invited to attend the Hobart ASP conference had a marvellous time – TC suggested that this initiative of Council was successful and should be continued.

The success of ASP students at the Malaysian Society conference was noted with pride.

Maintenance of membership database – Secretariat (RGSQ) data can only be downloaded in ASCII format and does not contain historical records of joining dates, etc. (not due to RGSQ but rather because data not available from previous secretariats). Reminder notices for contact details go out with every annual subscription notice. A large non-financial component was noted by TC – POD responded that membership fluctuates between 350-380, non-financial members often rejoin but many students find new fields.

Position of Webmaster – RH believes that it is an operational position and does not

require to be attached to the Council – Council can request reports from Webmaster for their meetings.

2005 Conference: combined WAAVP/ NZSP/ASP meeting? NS reported that he went to Christchurch – excellent venue, NZSP have agreed to joint meeting – ASP need to decide on our involvement. Timing issue (October) may clash with teaching – Council agreed to appoint a convenor for our 'satellite' meeting

President's Report:

TC reported that DJ and he attended Science meets Parliament – agenda for discussion driven by politicians – it was more broad agenda promotion for science (rather than specific parasitology issues) which was very effective and felt that FASTS did a great job in promoting this agenda – DJ said we should prepare some 'snappy parasite propaganda' which can be delivered once in the 'inner sanctum' of parliament – definite educational link here.

TC noted that there had been a smooth transition in the change of IJP Editor and editorial office started by AT and completed earlier this year.

TC reported that executive were very appreciate to all who showed willingness to take on Newsletter Editor position. Mal Jones was selected as replacement and will use infrastructure developed by POD. TC noted that the Newsletter position is a key function of the Society and Council were keen to support MJ through resourcing and personal assistance. POD said the computer was now out of date and software had moved on – likely need upgrades of both plus a scanner – MJ and POD to liaise and MJ to bring requirements to next Council meeting or to Executive if required before July.



Your friendly ASP Council (standing) overseeing the hard-working Executive (kneeling) (see inside front cover for who's who)

Bancroft Mackerras Medal – TC tabled document for consideration by Council. Changes were suggested to the By-Laws to streamline committee selection process. The committee is made up of Fellows of the Society. CB stated that the BMM was set up as a 'research' award. NS said that the BM Committee had difficulty in interpreting the guidelines for the BM Medal. Council resolved the following changes:

'Each member of the Awards Committee shall serve for up to five years. Council should appoint one new member to replace one retiring member each year. Retiring members will not be eligible for reappointment until a year has elapsed. This system will ensure both continuity and regular change in membership of the Awards Committee.' "Nominations shall be made by a proposer and a seconder, they consist of the following documents: (I) a detailed statement of nomination describing the nature of the 'outstanding contribution to the science of parasitology' for which he/she has been responsible. The statement should make explicit reference to particular aspects of the research achievements of the nominee. This statement should be signed jointly by the proposer and seconder, or each may submit a separate statement; (ii) a curriculum vitae including a list of all publications.'

'The Awards Committee shall bring to the notice of the Executive Secretary the name of any candidate it considers worthy of nomination so that the Executive Secretary can encourage such nomination to be made'

In discussion of changes to By-laws/ Constitution, POD asked who is custodian of process? Council agreed it was the Secretary.

FASTS' workshop - TC said the focus should be on maximising the benefit - IJP Editor's Report WC said the website is a good communication tool and Council needs to keep its content current

TC asked about management of membership database by Secretariat - POD said they do an excellent job and data quality is a matter of individual member responsibility – DP suggested that state reps could fulfil a more proactive role – Newsletter Editor's report RGSO could send a list of state members to state reps each year and Executive Secretary should send information on new members to state reps.

TC brought up the possibility of web payment for membership fees - WC stated that web payment has yet to gain wide acceptance – trust & security issues.

Conference manual has been developed Archivist's Report according to WC who passed it onto Mark Sandeman - WC will track it down with intent to keep it as a living document.

TC raised potential for media coverage at conferences - require an experienced person to handle the media and help prepare Webmaster's Report press releases (DJ, RA). POD suggested alert local press with biographies of invited speakers – DJ stated that a catchy 'hook' required.

Treasurer's Report

CH tabled his report and profit/loss statements, he reported that the Society's accounts were now loaded into MYOB to facilitate audits. ASP Inc is now registered for GST and has applied for endorsement as a tax exempt charity - should qualify without problem. POD noted that Treasurer and Exec Secretary can be re-

elected for 5 years continuous service with a view to providing continuity despite being an onerous task - Council aware of possibilities but usually fell to goodwill of individual members.

NS read email from Adrian Klinkenberg which detailed an income increase for IJP against the trend of other Elseveir journals. Special Issue - May issue will have limited papers from the Hobart conference - President's address/award addresses etc.

POD & MJ will produce the next Newsletter together – logistics of production remain the same (e.g. trust account at UQ) MJ to provide a budget request for the Council meeting in Darwin and books to be audited prior to AGM. TC highlighted the excellent job that POD has done over the past years.

CB reported that films made by J.D.Smyth were in her possession and suggested that she be resourced for their transfer to digital media - unanimous agreement by Council

RH called for links to other websites (institutional, parasitology links) - suggested he contact WolfWeb to redesign the site. Suggested that State Reps look for links within their State and forward these to RH. Discussion regards online registration for ASP conferences - generally felt that downloadable forms were preferable (easier to format and security issues).

Fellowships

TC led discussion of activity of Fellows, with higher activity recommended. RA suggested that the parameters for conferring of Fellowships should not include seniority, it would be beneficial to have more Fellows who remain active researchers in the field from which we could draw representatives of the Award Committees Other Business to assist more Senior Fellows. One Fellow elected, to be named at Darwin Conference

Education

TC noted that the promotion of education in parasitology had not been moved forward as a major issue of Council - POD gave an account of the new BioSecurity CRC under which a template at tertiarv level had been created for prospective PhD candidates.

POD also confirmed he had been elected as Chief Examiner for the forthcoming 15th International Biology Olympiad in Brisbane 2004. He is therefore required to review the biology curriculum at secondary level.

POD defined the major gap at undergraduate level and suggested that lecturers with electronic lecture presentations should be encouraged to share these resources Meeting closed 4:25pm through a web-based delivery system and suggested that Council should consider endorsing this. POD will trial flexible delivery by providing information to RH for inclusion on the website.

Darwin conference

LS gave an update – DJ proposed that up to \$25,000 be set aside for student assistance (up to 50% airfare plus registration and accommodation)

ASP 2004 Fremantle

RH reported that the Esplanade Hotel had been secured for the conference and the organising committee chaired by Brown Besier was discussing ideas. Would be held around the 27th September (common university break).

DP to write tribute for Sue Newton in Newsletter

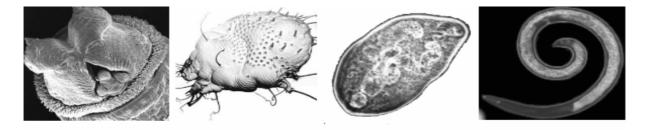
TC raised AT's 'post-issues paper' and raised the possibility of funding flow through raised profile via CRC or ARC Centre of Excellence programs. NS did not feel that a focus on 'parasitology' per se would match the CRC tight focus philosophy. TC agreed that driving of specific initiatives was not an appropriate activity for Council but we should consider support of individual initiatives on a case by case basis. WC pointed out that our conferences already support research initiatives by offering a venue for reporting.

On the question of Issues Paper update, POD suggested that the current paper be updated by the authors concerned and the Council identifies gaps to be filled, the Executive writes an 'executive summary'.





ASP'03 CONFERENCE



ASP 2003 DARWIN

Annual Meeting of the Australian Society for Parasitology

Final Announcement

Darwin, Northern Territory July 6-July10, 2003

Register now!

The annual scientific meeting for the ASP is in the final stages of preparation. All we need now are lots of abstracts to complete the scientific programme. The programme is not yet finalised so go to the web site for up -to -date changes.

Conference information can be found at the ASP web site www.parasite.org.au.

What's new?

- Three malaria workshops planned for the Tuesday
- Presentation by Alan Johnson on how to make successful ARC grant applications
- Welcome reception at NT Parliament House (dress -Territory formal). You will need your invitation which will be in your satchel
- * Addresses by Presidents of both the Australian and Malaysian societies
- Posters and Presidents' reception and addresses now on Monday
- ✤ Cut off date for early registration 28th April
- Rooms at Value Inn still available
- ✤ Conference dinner venue changed to wharf precinct
- ✤ A phone hot line will be available during the conference (number on web site).

For more information contact

Lois Small

Department of Business Industry and Resource Development GPO Box 3000 Darwin Phone 08 8999 2245 Fax 08 8999 2024 Email lois.small@nt.gov.au



CT STATE NEV

under 10 years old in an area of rural Queen- to work towards her PhD on functional gesland. David Jenkins has been invited to nomics in C. elegans and parasitic nemaspend some time in the area in June to help todes. with setting up a hydatid control/awareness

campaign. events' include David giving a hydatid paper on the functions of ligand-gated ion channels at each of two one week Vertebrate Pest Con- in C. elegans and has created a variety of trol Courses run by the NSW Department of transgenic worm strains expressing green Agriculture and assisting Nick Sangster by fluorescent protein or 'hairpin' RNA interfercoordinating and running an Echinococcus ence constructs. granulosus segment as part of the Sydney University Vet School course. David will be Flavia Pellerone is pursuing her post-doctoral in Darwin for the ASP meeting in July and at work on validating potential drug targets and WAAVP (New Orleans) in August. Whilst in has also started using proteomics in combinathe US David will be visiting the Veterinary tion with RNA interference to investigate the Faculty at Cornell University as guest of Prof function of putative ammonium transporters Dwight Bowman (invited speaker at the ASP in C. elegans. meeting in Hobart 2002). David will give a seminar at Cornell, visit some parasitology The workplace of Eva Bennet-Jenkins and labs in other universities and work hard at Wendy Cooper has recently changed its name having a good time!

sabbatical leave in Wellington, NZ, as an Medicines Authority (APVMA). AgResearch Senior Research Fellow at the launch was held on 5 March with distribution Wallaceville Animal Research Centre, work- of caps, champagne and (yet another!) fridge ing with Warwick Grant on RNA interfer- magnet. The name change is designed to ence and C. elegans genetics. She is return- more clearly identify the organisation's role ing to Wellington in April 2003 to work for a and areas of focus. The organisation's new month with Graham Le Gros at the Malaghan logo is shown below. Institute of Medical Research on RNA interference in parasitic nematodes.

In a two week period last year, 4 cases of hy-Julie-Anne Fritz has recently joined the datids were diagnosed in unrelated children Behm lab as a MLA Junior Research Fellow

Other forthcoming 'hydatid Nick Johnson continues his work at CSIRO

from National Registration Authority for Agricultural and Veterinary Chemicals (NRA) Carol Behm spent the second half of 2003 on to the Australian Pesticides and Veterinary A gala



STATE NE

aging the bioinformatics for the Scabies Gene the scabies lab at MSHR. Discovery project, is over in Capetown, Sth

Africa on a WHO funded Regional Training Planning the ASP 2003 conference is a large Course on Bioinformatics applied to tropical focus for parasitology at the Berrimah Veteridiseases. Deb is currently a visiting scientist nary Laboratories. It is becoming increasing at the MSHR and the training gained in this obvious why people are reluctant to organise course will enable her to return to both conferences- hopefully all of the new organ-MSHR and QIMR and train and support isational skills developed (ie delegation) can other staff in effort to increase capacity in be utilised in other areas.

Work on scabies continues at the Menzies bioinformatics at these institutions. Dave School of Health Research. Dr Deborah Kemp is due back in Darwin in April for the Holt, who works with Shelley Walton man- first of his dry season visits to Darwin and

SA STATE NEV

Flinders Medical Centre

position at the Department of Medical & Mo- ways presents many challenges; you never lecular Parasitology, New York University to know what will turn up in your laboratory. work on cell biology and immunopathology Recently, a case of visceral leishmaniasis of the malaria liver cycle. Laki left Adelaide was diagnosed in a local patient who had visin early April. Her husband, Jaliya, will be ited relatives in his native homeland of working at one of the New York University Greece. Also, an Australian worker returning teaching hospitals. Laki's new position will from South America presented with a bot fly present many challenges, but at the same infection. There has also been an influx of time offers an exciting and stimulating Sudanese immigrants with schistosomiasis. change in her working and social life. The To make life even harder, we will not have move for Laki is possible now that her the expertise of Professor David Grove for daughter has submitted her PhD thesis and the next 3 months because he is taking a has also married. Laki will continue to col- well-deserved long service leave break to laborate with researchers at Flinders Medical travel Europe. While David is away, he has Centre.

to all my ASP buddies. Please look for me if esteemed President, Dr Tom Cribb) must be vou come to New York!"

and nationally for many years. We wish Laki still the only human infections worldwide all the best in New York and hope to hear and we are always interested in hearing from lots of interesting news from her over the anyone who finds brachylaimids in land next few years.

IMVS - Queen Elizabeth Hospital

Dr Laki Kumaratilake has accepted a 4-year Life in medical parasitology in Australia alleft implicit instructions that the final chapters of Andrew Butcher's PhD thesis on She has this message: "Goodbye & good luck Brachylaima cribbi (named in honour of our completed before he returns. There have been 12 human B. cribbi infections diag-Laki has been involved with the ASP locally nosed in South Australia to-date. These are snails or adult worms in their animal hosts.

SA Museum/University of Adelaide

ever. Five new students joined the lab early one has any spare caps they no longer use or in 2003. These include PhD students, Kate if there are any companies with unwanted Hutson, Allan Mooney and Rissa Williams promotional caps, they will be gladly acwho are working on various aspects of para- cepted and put to use. Peter was also responsites on kingfish. Honours student Ben Di- sible for the organization of the Merino sevett (from Christchurch, NZ) is investigating lection demonstration flock field day in the efficacy of several natural remedies in March. Guest speakers included Kevin Bell fish feed to remove skin and gill parasites from W.A. from fish. Vanessa Glennon completed her work as a Research Assistant and has started Ian Carmichael and staff are completing a Honours. She is looking at the taxonomy and trial using capsules in lambs on spray irrigabiology of parasites that live in the cloaca of tion systems in southeast SA. One member the southern fiddler ray. Ian and Leslie have of the group is not as young as he used to be taken the plunge into the cold southern wa- and the continuous climbing of the sheep ters and begun local collecting and have had yard fences took its toll. Micko's recovery some exciting finds. The newly refurbished continues! Monogenean Lab on the second floor of the asked to identify a tick collected from the Darling Building is now complete and we armpit of a tourist in sunny Queensland. The look forward to moving into it soon.

ited Ian and Leslie (Whittington and Chis- excised, but decided against continuing the holm) at the South Australian Museum late in procedure when it moved. He referred the 2002 to sort through the many boxes of paper patient to a dermatologist. The tick was rethat had accumulated in the back rooms of moved and sent to a veterinarian for identifi-Helminths over the years. Their assistance cation, albeit without a hypostome. was greatly appreciated and many valuable documents from T. Harvey Johnston, Pat Richard Martin plans another trip overseas Thomas and L. Madeline Angel have now with his son who won the national cadet sailbeen stored and filed in the SAM Archives. ing championship this year after topping the Di Barton braved the cold in April and trav- Aussies in Germany at the world championelled south to SAM to work on monogeneans ships last year. This year, the world champifrom carangids caught off the Queensland onships are held in Belgium in July. She narrowly missed Premier Mike coast. Rann and his official opening of the newly refurbished Natural Science Building to the public in March 2003. The new South Aus- On July 30th, the local members of the ASM tralian Museum "Science Centre" gives the and ASP will get together for an informal public a taste of 'behind the scenes' museum evening of parasite talks. The idea was proscience!

SARDI

Peter James has started a project to control flies in poultry houses. He has been climbing around underneath them, collecting specimens and encountering the odd snake and

dead chook! Delightful work in the summer months, but the difficulties haven't stopped The monogenean laboratory is busier than this brave researcher. Peter asks that if any-

The laboratory was recently interesting aspect to the request was the accompanying history. At first inspection, a Ian and Lesley (Beveridge and Warner) vis- medico suggested that the skin tag could be

Other State events

posed by Andrew Butcher and is being organized with Ian Whittington. The event will take place in the Royal Society Rooms at the S.A. Museum and will include some repeat talks from folk who will attend the Darwin conference, a presentations from Andrew about B. cribbi (see above) and hopefully a talk from Paul Monis about his research at the Australian Water Quality Centre.



NSW STATE NEV

Editor's Note:

Mail being sent to one of our Fellows, Joe farmers in many towns in fluke endemic ar-Boray, was being returned. After a few phone eas in Tasmania, Victoria and New South calls, a current address was found and Joe is Wales. Both the farmers and I have learned now back on our mailing list. This raises the something from the meetings. plight faced by all Fellows. They do not have to renew their annual subscription and there- On the 24th of April Australia's most practical fore do not have the opportunity to amend and popular parasitologist, Hugh Gordon their postal addresses by regular reminders. died. He was 93. I had the pleasure to work If you know any Fellows, please check that next to his room for 12 happy years at the they are getting their ASP mail. Joe was very McMaster Laboratory. A few days before his appreciative that we rediscovered him and death we had a happy telephone conversasent the following news items for our infor- tion. I wish I had such a good memory and mation.

THE BORAY'S YEARLY BULLETIN

Since my "retirement" not a great deal has day in Darling Harbour, just the two of us. happened, apart from the events in the world, The area became the most interesting comwhich are frightening. In the last year, we be- mercial district of Sydney, with good restaucame a bit older but not wiser, we have rea- rants, museums, an indoor marine aquarium, sonably good health and are busy enough not educational exhibitions and a huge hotel. We to be bored. My snail cultures still occupy had a good time. This year we had no organour third bathroom with a few thousand ised party and the next one will be at my 80th. snails. I maintain three strains of Fasciola he- if I reach it. I would like to celebrate that in patica, one is fully susceptible to any drugs, Budapest or in Szentendre, near Budapest. the second is partially resistant to triclaben- My very close friend, Neil Aitken of New dazole and salicylanilides and the third is to- Zealand reached his 101st birthday in Novemtally resistant to triclabendazole at any stage ber. We did a lot of work together in hydatid of development, and partially resistant to control in New Zealand in the seventies. He salicylanilides. I assist Ian Fairweather and still works in the family property, driving his group of Belfast in trying to find a bio- tractors etc. Last year Joanna and I particichemical or DNA marker for the diagnosis of pated in a huge 100th birthday party attended resistance.

In January we completed our last sheep ex- would like to follow in his footsteps (poor periment (#107). This means that we did a Joanna). fair bit of work in the last few years. Each experiment consisted of 35 to 50 sheep. Ac- In November we travelled to Viet Nam for a cording to Joanna all the thousands of sheep week. I was invited by the World Health Orkilled in my experiments have to pass in front ganisation to participate and contribute to a of me when I die before St Peter lets me in, if workshop on food-borne treamatode diseases he does at all. A colleague of mine, who has in humans. The FAO was also represented. I a large contract research organisation in Ar- prepared and presented a working paper on midale does the future trials and I only sup- fasciolid infections, with Fasciola hepatica, ply him with metacercariae. A good arrange- F.gigantica and Fasciolopsis buski. Viet

ment. In March and April I gave 12 talks to

clear ideas. In July we had a reunion lunch with the ex McMaster Laboratory colleagues in North Sydney. It was nice to meet again.

Joanna and I quietly celebrated my 76th birthby 300 plus people, from all over the world. The 101st celebration was not much smaller. I

Nam reported more than 700 cases of Fas- were present. It was a good meeting, reports ciola infection in humans during the last 5 on opistorchids and Paragonimus were also years based on symptoms and ELISA tests. discussed. No previous cases were reported before. It seems that the distribution of parasitic dis- Australia has much trouble because of the eases is directly related to the distribution of long drought. We had no appreciable rain for good parasitologists. cases in Australia. I treated three cases and However I believe that we will survive that the results were published. It was always as- as we survived previous droughts. One thing sociated with consuming watercress picked is sure, that the snails will survive under the up on pastures, where infected sheep or cattle dry mud.

We have occasional 6 months, the rural industry is suffering.

C STATE

La Trobe Malaria Labs

activity and some changes in the research croscope. See the Confocal Facility link on: groups. Three of last year's crop of Honours http://www.latrobe.edu.au/biochemistry/ Or students, Sarah Frankland, Jesse Schloegel contact Catherine Li (C.Li@latrobe.edu.au) and Kleo Vingas are still with us, the first two as PhD students with Leann and Mick Andy Coley and Leann are organising a seand Kleo as a Research Assistant with Robin. ries of malaria sessions at this year's ASP Aysun Tanrikulu has also joined Leann's meeting in Darwin. It looks like an excellent group as a new PhD student. Meanwhile, a line-up. Contact Andy (acoley@bioserve. new group of Honours students have started: latrobe.edu.au) if you would like more infor-Catherine Jackson, Erica Logan, Solie Ab- mation. dulnour and Rebecca Sgambellone.

Akin Adisa and Sonia Nikolovski were awarded PhDs at the recent graduation ceremony. They looked very grand in their gowns and caps. We've managed to hold on to Akin, Another bloody report who is it this time who is back in the lab employed as a post- Oh ASP OK, what the hell has been going doctoral fellow developing new antimalarial on?? Not much would seem to be the obvious diagnostic reagents. Dr Judy Scoble has also reply. A quick review of the last report finds joined Leann's lab as the resident protein the same people have left or stayed and the chemist. It's great to have her on board. Peter same grants are still in limbo! Peyman has Macreadie is also oscillating between La been joined this year by an honours student, Trobe University and CSIRO, Parkville, Liam Cook, who is purifying worm proteins looking at new endoperoxide antimalarials.

for Cell Biology, Workshop on Building at the start of the second gulf war. We have Complex Structures in Simple Cells, San heard that he arrived safe and sound but that Francisco, December, 2002, and at a fantastic he wants to come back again. This is fine by workshop on Redox Metabolism in Malaria the lab but ASIO has been asking some odd at the Rockerfeller Centre in beautiful Bella- questions. gio, in Italy, February 2003.

If anyone is interested, we are offering theoretical and practical training in the use of our The New Year at La Trobe has seen lots of new Leica SP2 laser scanning confocal mi-

La Trobe **Parasitology Control Laboratory**

from sheep faeces and an itinerant Iranian, Norair Piazak, who spent 3 months perfect-Leann was a speaker at the American Society ing his ELISA techniques before flying home Mark Sandeman has also travelled but more sity and CSIRO are busy applying for Meat locally to attend a sheep CRC meeting in Ar- and Livestock Association (MLA) and Ausmidale. There he renewed his acquaintance tralian Wool Industry (AWI) grants to fund with grass and various fellow travellers in- further studies into the resistance of sheep to cluding Deiter Palmer, Brown Besier and Ian nematode and trematode infections. Colditz. They all agreed to submit a grant application for the aforementioned period in Jill Pleasance, a former Honour's student of limbo and Mark flew back to no grass and David at the Molecular Parasitology Lab at noticeably warmer weather. David Chandler Monash, has decided she hadn't had enough from Nufarm is once again visiting the lab of the tertiary education experience and has regularly to monitor progress on his new in- joined us at CAB to work with David. She sect aminopeptidase inhibitors while Mark's will be accompanying David on his trips to new company BMK Biotech has completed Indonesia to collect samples from Indonesian the local regulatory hurdles and is in danger sheep breeds to begin her studies on the resisof selling some diagnostics to various parts tance in these animals towards Haemonchus of the world. Hopefully the pig mange test and Fasciola. developed in the PCL will be included thanks to a lot of work by Peyman.

Melbourne University Veterinary Science, Werribee

It seems Craig Kyngdon has been the one person from Werribee having a lot of fun while busy traveling to exotic locations in Malaysia. See Graig's report in this issue for details of his adventure!!!

Melbourne University Centre for Animal Biotechnology Molecular Parasitology Lab

RIP Molecular Parasitology, Monash University. That's right, at the start of April, David Piedrafita decided to relocate the lab. to the CSL. He is learning more about industrial Centre for Animal Biotechnology (CAB) at biotechnology and working on a project to do the University of Melbourne; PhD students, with therapeutics for the bacterial pathogen Nick Kennedy and Rebecca Smith were Chlamydia. crazy enough to follow David - for great brainwashing techniques please contact Terry Spithill, the former director of Molecu-David! Here, Rebecca and Nick will com- lar Parasitology at Monash and now at plete their PhDs on the molecular biology McGill University, visited us in Melbourne and immunology of Fasciola and David will during February. We had the chance to meet continue work on his ACIAR project looking with Terry to discuss our various projects and at the immunological resistance of sheep to catch up with him over drinks and dinner. Fasciola.

With the move has come the chance for new amendments required! collaborations, and David and Els Meeusen Rhoda, what a wonderful effort! And that (the director of CAB) with Sydney Univer-

Meanwhile, Simone Beckham, remaining at Monash University under the supervision of Rob Pike has had some relief from F. hepatica Cathepsin B and is now enjoying the relative ease of working with a somewhat less complicated enzyme, Cathepsin L. Rob and Simone are now working in collaboration with parasite cysteine protease icon, Jim McKerrow (UCSF), more news on this front to come soon.

Another of our PhD students, Adam Rainczuk returned from McGill University in Montreal late last year and is close to completing the write-up of this work. While he puts the finishing touches to his manuscript. he is participating in a CRC-Vaccine Technology sabbatical scheme for three months at

But saving the best 'til last ... Rhoda Prowse has had her PhD thesis passed with no Congratulations conference in Darwin this year but will send ate parasitologist and will be greatly missed. Nick, Rebecca and Simone to cause a similar there!).

Victorian Institute of **Animal Science**

Unfortunately, we have very sad news for all the members of the ASP, and anyone who loves parasites. Dr Sue Newton, formerly head of nematode research at VIAS, whom

ends a fairly tumultuous quarter for us all - many members of ASP would know well it's definitely been a time for fresh starts. (PS. passed away recently in tragic circumstances. Unfortunately David cannot make the ASP Sue was a wonderfully energetic and passion-

disruptive effect in Darwin - hope to see you At Sue's funeral, the ASP was represented by David Piedrafita who spoke a few words on behalf of the society at a reception of family, friends and colleagues following the funeral. Other notable speakers included Graham Mitchell and a special telegram by Sir Gustav Nossal. Jennifer Sexton, a work colleague of Sue, made a special and moving speech at Sue's funeral and is presented in this issue as a tribute to Sue.

Δ

Andrew Thompson visited Darwin Murrell's ics of Trypanosoma evansi infection. Peter laboratory in Copenhagen in January, and Wai'in from the National Agriculture and this has resulted in a visit to Murdoch Uni- Quarantine Inspection Authority in PNG has versity from Rikke Langkjaer of the Danish also arrived to begin a PhD with Simon Reid Veterinary Institute to work on molecular and Stan Fenwick on the epidemiology of techniques in Giardia and Cryptosporidium leptospirosis in PNG (it may not be a parasite diagnosis.

Andy attended the Malaysian Society for Parasitology and Tropical Medicine meeting We will be hosting Mr Kelsang Dhondup in Kuala Lumpur and has set up a strong link from Tibet who arrives in April to spend a with the president Suresh Kumar. Suresh will year receiving "research training" and to be coming to Murdoch in May to give a talk hopefully leave with us his skill in using GIS on Blastocystis.

Andy has embarked on an outside study program in Canada for the rest of first semester, Katie Simcock joins the group as an Honours working on Echinococcus in coyotes and student, supervised by Andy Thompson, moose with Merle Olson at the University of Wayne Greene and Marion Macnish, looking Calgary.

Panlerd from Army Medical University in Congratulations to Megan Johnson and Bangkok spent 3 weeks with the Murdoch Kathy Menon for completing their PhDs. molecular group looking at Giardia and This brings the number of Murdoch Univer-Cryptosporidium.

We welcomed Zablon Njiru from the Kenyan

but at least you can see it and it's motile!). Peter is funded by ACIAR.

to unravel sciences greatest problems, or at least ours.

at dog flea population genetics.

sity parasitology group PhD completions over the last 12 months to 6.

Trypanosomiasis Research Institute (KETRI) Louisa MacDonald has almost finished hers who has begun his PhD studies to unravel too, but has to finish it off in Melbourne, some of the interesting aspects of the genet- having found gainful employment at WEHI.



QLD STATE NEWS

Queensland University of Technology

STUDENTS FIND MAGGOTS REPULSIVE BUT INTERESTING by Catherine Prowse

Deb Stenzel (lecturer in parasitology and cell biology at QUT School of Life Sciences), Peter Darbin (QUT graduate and now secondary school teacher) and Robert Dow (Medical Scientist with a great parasitology interest, from QUT) are booked to attend the joint conference of AIMS (Aust Inst of Medical Scientists) and their NZ counterpart (NZIMLS) to be held at the Gold Coast, Oct 6-10th, 2003. There, the trio will present a half-day workshop, entitled "Parasitology Revisited".

This workshop is designed to keep the parasitology diagnostics flag flying and the conference flyer runs as follows: Review of Medical Parasitology for the bench scientist. Microscopy continues to be an important diagnostic tool in medical parasitology. As clinical laboratory personnel become more widely multi-disciplined, the availability of medical scientists who have expertise in diagnostic parasitology at a routine level will become more limited. This "dry" workshop is designed to review the fundamentals of medical parasitology including: specimen collection, specimen processing, diagnostic methods and organism identification. Participants will be provided with a workshop manual and a compact disc incorporating the workshop presentations and manual.

Peter Darbin did his PhD on *Enterobius* at QUT. After some years teaching parasitology to QUT undergrads, he decided to educate humans at an earlier part of their lifecycle. He's been teaching in Mt Isa for about 5 years, now - but obviously still has his heart in parasitology. Only a real parasitologist would have school kids breeding maggots, as the following extract from a news article from The Northwest Star (Mount Isa) (26.2.03) attests:

The life-cycle of the lowly maggot has proved a timely subject for Year 12 science students at Spinifex State College. Multistrand science students are investigating how the life-cycle of the maggot can be used to estimate the time of death of their host, a field known as Forensic Entomology.

Teacher Dr Peter Darben said the subject was timely in light of Mount Isa's current fly plague but insisted the students were not contributing to the city's fly population. The flies that are bothering us at the moment are muscid flies," Dr Darben said. "Generally they hang around your rubbish, but they are not the ones that lay on dead meat." "Certainly the maggots we've bred are too large to be muscid maggots." He said the student's studies had shown the flies they had bred were most likely to be calliphorid flies. However, he admitted there had been some escapees. "When they are ready to pupate, they normally leave the meat. Some of them got out and we found them crawling across the floor."

Students have placed baits of chicken and lamb's fry around a site on the senior campus under various conditions. "The maggots only liked it when they were in the shade and reasonably well sheltered from the sun. "It's a great unit to teach because the kids are really into it. The unit is teaching them much the same as the butterfly life-cycle, it's just a little more repulsive."

Dr Darben said the students had drawn some conclusions about Mount Isa's current fly problem. "There's the extra wet weather and there may be more carcasses around. Even though these flies don't lay their larvae on dead meat, there is a lot more organic matter around with the moisture from the rain. That

might have encouraged the population to ex- quired to produce the displays you see in muplode." Dr Darben said he had not seen so seums around the country. many flies in his six years in the city.

[There's a staged photo with four of the kids pretending to look down a microscope. In- Its business as usual at CQU, but across the terestingly, the caption reads : "MAGGOTS (Right) : Year 12 multistrand science stu- Sutherland has taken up residence and will dents Mitchell Roberts (left), Darrien Ferris, give parasitology in the region a boost. It is Lerisha George and Natasha Perez inspect great to have another parasitologist here. Eritheir maggot specimens." Peter has yet to ask dani Mulder, having successfully completed Mitchell, Darrien, Lerisha and Natasha what her honours year (worms in rats and pythey think of being referred to as "maggots". *They're such nice kids.*]

Queensland Museum

The Museum is again hip-deep in oysters we are looking forward to meeting you all at with the 2003 sampling season associated the ASP extravaganza in Darwin. with Rob Adlard's FRDC program on marteiliosis in commercial rock oysters well underway. Just a shame that none of us can stomach oysters anymore.... Hmmm must change research tack to something we can still face on a dinner plate! Last year's results from this program uncovered the notifiable pathogen in 11 estuaries where it had never been recorded previously. On the face of it not a very happy outcome, but more realistically, it is better to have a widespread disease agent that causes disease in some areas under certain conditions, rather than attempting to keep the 'genie in the bottle' through strict border control on endemic areas. In any event, we have managed to get some valuable insights into the biology of this disease and the research officers attached to the program (Steve Wesche and Jessica Worthington Wilmer) should be congratulated for their efforts.

Rob and Mal Bryant are continuing to have a significant time input into the parasite display and later in the year to Papua New Guinea. (Intimate Aliens) that is being constructed by the Museum. We are nearing the end of the final design phase of the project with construction to begin very shortly. It has been a real eve-opener to be associated with the 'aesthetically creative' side of the Museum and we now realise the immense amount of work from a wide range of talented people (e. g. designers, educators, artificers) that is re-

Central Queensland University

road at the CSIRO Rendell laboratories Ian thons), has decided to continue on as a PhD candidate and will begin her candidature following up on the same theme. Otherwise we have been leading a quiet life, keeping our heads down and keeping out of trouble, but

Queensland Institute of Medical Research

Janelle Wright, a student of the School of Population Health, UQ, has just joined the Upcroft laboratory at QIMR. Her PhD project involves drug resistance in the anaerobic protozoa. She joins Rebecca Dunne and Justin Ross (also UQ students) doing PhDs in the Lab. Rebecca is focussing on genome mapping of the sexually transmitted protozoan parasite, Trichomonas, and Justin is tackling a Giardia project jointly with the Physics Department at UQ.

Also on Giardia, Peter Upcroft obtained an ARC grant commencing this year to map telomeric regions of Giardia chromosomes. In April, Jacqui Upcroft will commence her Winston Churchill Fellowship, which will initially take her to South Africa and USA The fellowship will fund the collection of Trichomonas isolates and their genotyping. The aim of the project is to identify markers for Trichomonas virulence, drug resistance and association with HIV transmission. Preparation for the fellowship involves Institute approvals for the project, visa applications, equipment collection, travel, etc).

Helminthology research is booming at QIMR with an influx of parasitologists over the last year. James McCarthy (formerly University of WA), an infectious diseases specialist, Following the decision by CSIRO to build up took up a joint appointment with QIMR, UQ and the Royal Brisbane Hospital in early 2002. James will be continuing his studies on a range of medically important parasites including Strongyloides, hookworms and Sarcoptes. James, his post-doc Cielo Pasay, and post-graduate student Alex Sykes are now well and truly settled in. Another Alex, Juliet Sutherland has a degree in Parasitology Alex Loukas, will be returning to QIMR after two years in Washington DC. Alex has a new faculty appointment and will continue his work on schistosomes and hookworms.

Dr Yu Xinling from the Hunan Institute of Parasitic Diseases, Yueyang, China is visiting Don McManus' lab to continue research on schistosomiasis. Don has many strong links with the group in Yueyang, notably with collaborator and former student Dr Li Yuesheng.

A number of new students have joined the lab, including Luke Moertel (Central Qld University) who will be working on microarray applications, Amber Glanfield (Honours UQ) and Brigitta Osterberger (Master of Tropical Health, UQ), studying the efficacy of the novel anti-schistosome drug artemether in animal trials.

Don recently attended the Centenary Symposium to celebrate the discovery of Schistosoma japonicum, held in Japan in March. The symposium was excellent, but marred with sadness at the news of the untimely death of Dr Carlo Urbani to SARS.

Dr Urbani was well known to many of the symposium participants. A physician working for WHO, Carlo had many regional contacts and was based in Hanoi, Vietnam. He was the first scientist to recognise the importance of the new SARS virus. We understand that the virus, when fully identified and characterised, will be named after Carol Urbani. He will be sadly missed.

CSIRO Tropical Livestock Systems Rockhampton

regional capability, a parasitology group has been established in Rockhampton, in the Tropical Livestock Systems program at J.M. Rendel Laboratories. Three scientists have been appointed to the group, and recruitment of Project Officers is currently underway.

from King's College London, a Ph.D. on the epidemiology of schistosomiasis from Oxford University. Her post-doctoral experience consisted of DNA fingerprinting mosquito blood-meals (Durham Univ.) and molecular and biochemical studies of Ostertagia (Massey Univ.). Juliet commenced work in Rockhampton in February.

Ian Sutherland (yes, they are married) has a degree in Parasitology from Glasgow Univ., a Ph.D. on drug resistance in nematodes from Leeds University and post-doctoral experience in trypanosomes and Theileria. For 7 years prior to joining CSIRO in November of last year, Ian was with AgResearch in Palmerston North as part of the Parasite Ecology/ Epidemiology group.

Sharon Bishop-Hurley commences in mid-April. Sharon has an Agriculture degree from Lincoln Univ., a Ph.D. in plant molecular biology from Auckland Univ. and postdoctoral experience in the University of Missouri on discovering novel peptides in plant and human pathogens. Sharon joined the group in mid-April.

The new group has a wide range of capabilities which will provide a strong framework for future research. With no existing parasitology work in place at J.M.Rendel prior to their arrival, they have an open brief to develop relevant research. They will use knowledge of host-parasite epidemiology to identify opportunities to address using modern technology. If you are in the neighbourhood, do drop in!

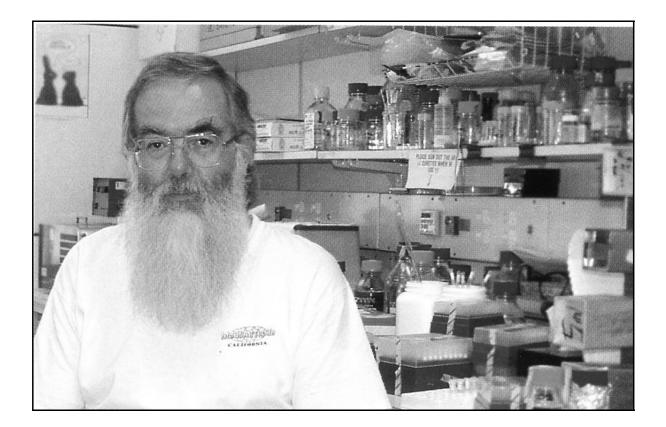


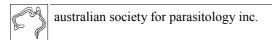
News article from LifeLab #48, 2003 Newsletter of the Queensland Institute of Medical Research

COMMON PARASITE LINKED TO HIV/AIDS

Trichomoniasis is the most common sexually transmitted infection, caused by the parasite *Trichomonas vaginalis*. Infection rates have been reported as high as 67% in Mongolia, 40% in indigenous Australians over the age of 40 and 46% in highland women in Papua New Guinea. *T. vaginalis* infects one billion people each year, causing severe morbidity as vaginitis, preterm delivery, low birthweight and increased mortality of infants. Infection with *Trichomonas* also predisposes carriers to an increased incidence of HIV/AIDS and an increased risk of cervical cancer in females. Eradication of *Trichomonas* may well be the most cost effective means of decreasing incidence of HIV/AIDS

QIMR researchers, Drs Peter and Jacqui Upcroft, have spent years analysing the complexities of organisms such as *T. vaginalis*. Their research addresses the issues of strain differences in *T. vaginalis* and how these differences may contribute to differing symptoms and increased predisposition to HIV/AIDS. The Upcrofts are using their novel genotyping system to identify individual isolates of *T. vaginalis* from selected communities in different parts of the world to determine if there are a discrete number of drug resistant, pathogenic and virulent strains. This research will lead to better diagnosis and improved treatment outcomes. The research will also examine the prevalence of other sexually transmitted diseases, including *Chlamydia*, gonorrhoea and syphilis. The ultimate result is predicted to significantly reduce the incidence of HIV/AIDS.





/ale - Sue Newton

On behalf of many, I would like to take this was a molecule called H11. Sue spent the opportunity to give you an insight into Sue's last 10 years working on it, with the ultimate many talents as Department head of Molecu- aim of making a vaccine. Her words "We lar Vaccines at VIAS.

Sue began working at VIAS in 1996. Our This line of research will be continued and first introduction to Sue was at the Sea World any successes will be dedicated to her name. Nara resort, whilst attending a conference on vaccines. It was at this time that we discov- As department head, Sue successfully led the ered her undying passion for the Essendon Molecular Vaccine team, which employed up football club and her extreme dislike of water to 25 staff, for 7 1/2 years. She managed a travel due to seasickness. We also found she budget of over 2 million dollars each year was a stickler for attending every conference and was always working away to ensure we session and she took her science very seri- maintained this level of funding. In fact, up ously.

Over the years, it became evident Sue had an for her team to ensure the viability of the Deunmatched passion and love for science, in partment. particular the study of parasites. She will be always be remembered for instilling in many And even with all her duties as department of us an interest in this weird and wonderful head, Sue always ensured Molecular Vactopic. One of Sue's real passions in science cines met the demand to publish, as she was

just have to tweek it in the right direction and it should work" will stay with us forever.

until she was unexpectedly taken from us, she was working to secure additional funding





such a prolific writer of scientific papers. tive streak. She ran the footy tipping compe-Whilst most of us struggled, she had 38 pub- tition like no other, and was just disgusted lished papers in journals of the highest cali- when non-footy folks won the competition. bre and standing in the scientific community. Sue often took the opportunity to thank her 7 patents, and various manuscripts in prepa- staff for their efforts by cooking up a storm ration.

During her time as Department Head, Sue We will always be proud we introduced Sue has shown herself to be a caring supervisor to the television show "Buffy" so she could and a fantastic mentor. challenge of supervising and mentoring stu- ine's latest plight. We also discovered Sue's dents, particularly through their PhDs. We love for cats, and came very close to adoptcan thank Sue for the training and mentoring ing a number of kittens during one of our of a number of our colleagues to allow them project meetings held in Sydney. to pursue their dreams in science. And even though there was always the fear of her staff Sue's great sense of humour was never more getting poached (and they regularly did) she evident than at Christmas time for Kris supported further training in our varied areas Kringle, where over the course of the years of interest. She always promoted her staff's she received many gifts from her staff includcareers but at the same time she actively en- ing the infamous "Department head barbie", sured that her staff maintained that important which came with peroxided hair and dark rework/family balance. Sue always put her and growth. Adrian's holidays as a lower priority than everyone else in the group, ensuring that the mum's could spend that precious time with To many of us Sue was the consummate scitheir families either through support of ma- entist, always making scientific presentations ternity leave, part-time employment or by al- seem like a breeze. But it was nice to see on lowing us to take off those perpetual school one very unusual occasion, that she too was holidays. team look like a piece of cake. She was al- having to practice a presentation just like the ways compassionate, tolerant of differences, rest of us. But then again the audience did able to make the hard choices, and seemed to include the eminent Sir Gus Nossel. have a natural ability to make a difference.

Her efforts and achievements in this role back to VIAS for the following function, we were recognised with an Agriculture Victoria will be further celebrating Sue's contribution Recognition Award for Leadership in 2001. to science. A number of short formal presen-Sue had many feathers in her cap, she was tations will be given by her professional colproject leader, department head, and Innova- leagues who have worked with her over her tion team leader. As a result of her strong long and distinguished career. belief in contributing to more than just the science of an organisation, Sue was recently Many of us cannot yet grasp the void Sue has invited to join the Executive Science commit- left in both our scientific and personal lives. tee at VIAS. And whilst many saw Sue as a It is going to be hard to continue without her great role model for women scientists to as- valuable advice as she was the key to our pire to, we feel she was a great role model to group's success. And although she was quiet all scientists due to her awesome intellect.

During her time with us, we got to know her minds, and will be an on-going inspiration to wicked sense of humor and fierce competi- us all.

on the BBQ, always catering for everyones needs and ensuring no food went to waste. Sue thrived in the join in the discussions regarding the hero-

Sue made leading such a large human, when we caught a glimpse of Sue

For those of you who are unable to travel

by nature, we will miss her passion and drive. Sue will forever remain in our hearts and

ASP Announcements

Nominations for **Bancroft-Mackerras Medal**

The Bancroft-Mackerras Medal may be awarded to a member of the Society who, in published during the last five years.

Nominations should be made by a proposer and seconder, and should consist of:

contribution to the parasitology" for which he/she has been at the end of October. responsible. The statement should be

signed by the proposer and seconder, or each may submit a separate statement.

A curriculum vitae including a list of all publications.

the opinion of the selection committee, has Note that the Medal is intended for members made an outstanding contribution to the whose research program has been productive science of parasitology, particularly in work during the last five years. The permission of the nominee is not required and the nominee need not be aware of the nomination.

Nominations should be sent direct to the current ASP President. Detailed information A detailed statement of nomination on nomination and selection procedures is describing the nature of the "outstanding given in the By-Laws of the ASP science of Constitution. Nominations are due each year



Nominations for **ASP Invited Lectureship Travel Grants**

To complement the scientific presentations at the Scientific Meetings of the ASP, overseas researchers of international reputation in a field of parasitology may be invited to attend and present their work. The invited speaker's expertise must be common to a discipline or <u>Details of program</u> symposium conducted at the Scientific Meeting. The visitor must be nominated by a The program should normally last a minimum member of the Society.

The Society will provide a travel grant to Details should include: assist in the finance of the trip. The support will be based on an economy class direct . return airfare from the recipient's home city to Australia, the necessary interstate travel and reasonable living expenses based on actual costs. Registration at the Scientific Meeting will also be included.

The total value of the lectureship will be determined by Council but it is expected that the recipient, or his/her Australian sponsor, will also seek to provide additional or alternative financial support.

must include the following Applicants information.

Details of visiting specialist

An up-to-date curriculum vitae must be attached to the application. The following details should be supplied:

- Date and place of birth •
- Present nationality (and former • nationality, if applicable)
- Present position held
- Full address of employing institution, including phone, fax and Email numbers
- Detailed evidence of expertise in relevant discipline (list of publications, etc.).

Details of Australian nominator

- Name of member organizing the visit, • including full address, phone, fax and Email numbers
- Details of all other applications which • have been made for financial assistance towards travel/accommodation costs Total value of other contributions must be included.

of 2 working weeks and cover at least 2 States or Territories.

- Date of visit
- Program being arranged, including institutions to be visited (with dates) and the purpose of each visit (lecture, seminar, workshop, research discussion, etc)
- Aims, rationale and likely benefits of visit
- Contribution to be made at Society's Scientific Meeting

Applications plus supporting documentation should be sent to the ASP President by the end of December in the year preceding the Conference. Applicants should check with the Conference Organisers for details of conference theme, symposia, workshops, etc. before submitting an application.



Postgraduate Travel

ASP Postgraduate Travel Awards

postgraduate students attend and present their student does not attend the conference the ASP research at international conferences. Applicants funds must be returned to the Society. On return must be members of the ASP Inc. of at least 6 from the Conference a short report must be months standing and enrolled in a postgraduate written to the Council detailing the student's degree at an Australian university. scholarships will be awarded each year and current ASP Secretary giving details of the applications will be considered in two rounds conference, their research and supervisor's with closing dates in June and December of the support plus an abbreviated c.v. and conference preceding year. Each scholarship will be up to the abstract as outlined on the accompanying value of, but not exceeding, Applicants must nominate the conference, supply number more than 6 pages including the c.v. and an abstract and justify their attendance at a abstract. Applications must be received by the recognised international conference preferably next due dates of June 30th or December 31st though not exclusively held outside of the each year.

The award will only be Australasian region. made once proof is received of acceptance of the These awards are specifically designed to assist abstract by the conference organisers. If the Four experiences. Applicants should apply to the \$A2000. application form. The application must not

APPLICATION FOR AN AUSTRALIAN SOCIETY FOR PARASITOLOGY INC STUDENT TRAVEL AWARD

Address:	
	Phone:
University: Enrolled Degree:	
Supervisor's Certificati	
I hereby affirm that the	above-named person is a bona fide postgraduate student under my supervision
Signed:	Date:
Conference Details	
Conference Title:	
* *	
Venue:	
Dates of the Conference Conference Address:	2:
Title of Abstract (Pleas	e attach a copy of the abstract):
Author(s) Oral or Poster session.	
Awards will only be pa	id on receipt of proof that the abstract has been accepted. ring attendance, budget (include all other support), brief curriculum vitae



ASP EXPERT DATABASE

The expert database is an initiative of the ASP Council and has been in existence for over 2 years. The aim of the database is to encapsulate all of the parasitological expertise available in Australia on one CD Rom.

This database can be utilised to quickly find appropriate people to comment on current issues or as a source of information for members looking for expertise in certain areas.

To ensure the privacy of these records is protected, they are not placed on the web site and information is only distributed to bona fide requests after permission is sought.

If you have not registered on this database, please complete the following and email to the current database custodian, Lois Small, at <u>lois.small@nt.gov.au</u>.

Title	Last name	First name	
Position			
Institution and A	ddress		
City	State	Post code	Country
Phone number	Fax number	Mobile phone	
Email address			
Speciality area			
Parasite group			
Host group			

L REPORT - ICOP

Shane Middleton from the University of Mel- day one of the conference the first group of bourne reports on his trip to ICOPA X 2002, aussie delegates I had contact with had all Vancouver, Canada

Well here I am on my way to Vancouver, tion and so got progressively worse as the Canada to attend and give an oral presenta- week rolled on (Ian Beveridge). Well it must tion to the 10th International Congress of have been pretty cold, most Melbournians Parasitology (ICOPA X) conference, 2002, were also complaining of the temperature, a with thanks to the ASP having been success- contradiction really. A local had informed me ful for a Postgraduate Travel Award.

The first step was to find a cheap return air conference and it rained for the first two days ticket something under \$2,000, equivalent to of the conference. finding a needle in a haystack. Just as the travel agent was becoming extremely tired Morning teas and coffee on day one appeared (of me) the hunt paid off. I was flying China to kick off in a positive direction keeping Air via Melbourne, Sydney, Taiwan to Van- those who just arrived awake from their jet couver return for \$1,790 excluding airport lag. But by lunch time all the coffee cups had taxes and duties.

Well I knew I was off to a good start after every man for himself. Fortunately Canada disembarking and wandering to collect my seems to have a Starbucks coffee shop on luggage I was approached by a Canadian cus- every corner so during any break there was a toms officer one of several that appeared to mad rush to purchase a tall grand sized paper be wandering aimlessly around 'the incom- coffee mug starting \$1.55 CAD plus GST ing' terminal and approaching tired unsus- which equates to 6 quarters and 5 cents. So if pecting international travellers. I was asked, you can find a 5 cent piece which just hap-"and what brings me to Vancouver?" which I pens to be twice the size of a 10 cent piece replied, "attending the ICOPA Conference," which is about the same size as a quarter or his immediate reply was, "and what parasite 25 cents then you have avoided being short am I studying?" "worms," I said. After a changed. Now that you have avoided being minute he retorted, "are you studying the short changed and your pockets are full of parasites of worms?" now I am thinking loose coins there are always the beggars. smart-ass, so I replied that, "my worm is the Who are fluent in both english and french, if parasite, ummm or maybe it isn't a parasite at their english demands receive no response, all and is just a commensal? Well depending located every 10 feet along the street and on your definition of parasite of course." Af- who will happily fleece you of your life sayter finally escaping the Q & A session he or- ing if you are not careful. dered me to go through the green exit - Nothing to Declare, lucky me!

So now I am off to the conference. The con- take slides along with them. But those who ference is just massive with 3 concurrent ple- relied on CD-ROM (and had not taken their nary lectures every morning and 14 or more own lap-top) had to beg borrow or steal a concurrent contributed papers arranged for lap-top from another delegate and hope that every afternoon. So if you try to run between delegate was in a good mood on the day to sessions it's like the peak hour rush on the lend it. I found this out first hand when I co-London underground every 15 minutes. On chaired one session (filling in for Robin Gas-

managed to contract some form of cold, flu or wog, some of whom didn't seek medicathat Vancouver was having an unseasonal cold spell that started the week before the

been packed away and were never seen again for the rest of the conference, so it was then

Well the conference appeared to run smoothly for those who were wise enough to ser) with Xingquan Zhu where we had one et al., called 'Molecular evidence for cospeaker's lap-top and 6 speakers all telling speciation between parasitic strongyloid me (well more like ordering me) they want to nematodes and their macropodid marsupial use it for their talk!

I will avoid going indepth about the variety of the conference abstracts and subsequent of papers given suffice to say they included ICOPA X published papers. So finally, I topics on emerging parasitic diseases in wild- would like to thank ASP once again for prolife, parasitology and biodiversity, parasite viding me the chance to attend such a high ecology, advances in genomics and bioinfor- profile international conference and being matics, molecular parasitology, population able to present my research results to an ingenetics, morphology, taxonomy and sys- ternational audience. tematics, etc. just remember to read my paper

hosts.' I am sure those of you who are interested in any of the topics will obtain a copy

「 - MAL KEPOF

C.T. Kyngdon reports on travel to the Malay- The Malaysian Society for Parasitology and sian Society for Parasitology and Tropical Tropical Medicine's Parasite Fest 10th-11th Medicine's Parasite Fest and the 39th Annual March 2003, National Science Center, Kuala Seminar of the Malaysian Society for Parasi- Lumpur, and Faculty of Science, University tology and Tropical Medicine

Malaysia has only comparatively recently at- The Parasite Fest was an initiative of the tained independence from Britain. The Ma- MSPTM, and it was a lot of fun. The Fest laysian Government has aimed to improve had several aims, including: the economy and infrastructure of the nation • in a series of 5-year-plans, culminating in the vear 2020 when Malaysia is hoped to become • a developed nation.

An enormous red neon sign adorns a sky-Kuala Lumpur, scraper in burning "WAWASAN 2020" ("VISION 2020") into the night sky. New highways and rail links are being built in an effort to overcome the crippling traffic jams at peak hours- a twenty-minute journey at 7am in KL can take you two hours if you leave at 7:15am- yet many are reluctant to use the new highways 10th March 2003: In the morning, senior High because of the tolls.

Several telephone companies have started operations within Malaysia, yet many of their telephones (outside of shopping plazas) are not adequately serviced. Malaysians openly speak of "Wawasan 2020", and describe their nation as one entering the developed world.

of Malaya

- To raise the profile of the Society within Malaysia
- To demonstrate to the Malaysian Government, and to the community, the relevance of the MSPTM
- To inform senior High School students of the profession of Parasitology
- To motivate 3rd Year Science students to undertake postgraduate study in the field of Parasitology
- To generate an air of excitement surrounding the study of parasites.

School students from 6 schools in Kuala Lumpur were entertained at the National Science Center. Prof. Huw Smith (Scottish Parasite Diagnostic Laboratory) and Prof. Suresh Govind (University of Malaya) each gave a humourous, informative and motivational lecture on how they had arrived at the study of parasites for a living, and on the importance of Science to the community.



showcasing their work. Each student had a trying to rectify. list of questions, and each group was given 10 minutes at each display in which to get the 13th March 2003: The second day began with answers. At the end of 10 minutes, a bell talks by Prof. Ramachandran (University of sounded, and each group moved to the next Malaya), Prof. David Halton, Prof. Huw display. At the end of the session, the papers Smith, and Dr. Stephen Ambu (Institute for were marked, and a prize bestowed upon the Medical Research, KL). The remainder of the person with the highest mark.

tionally well. My favourite display was in a to formulate ways to rectify the current shortroom to one side. Some forensic entomolo- age of 'baseline' data on parasite distribution, gists took a digital camera to a re-created prevalence, and illness caused by parasitic crime scene- a dead body buried in a shallow infection. The visiting professors, including grave in the jungle- and talked to the forensic our own Prof. Andy, contributed substanentomologist as he started to take insect tially to the debate, to good effect. After specimens from the body. This formed part lunch, the deliberations were compiled into a of a 10-minute powerpoint display that really set of recommendations. Several recommencaught the students interest.

11th March 2003: In the morning, Prof. David proposed, as were quite radical changes to Halton (Queen's University, Belfast), the the method by which research funding is vice-Chancellor of the University of Malaya, peer-reviewed. The MSPTM will lobby the Prof. Zain, and some other prominent Malay- Government to compel researchers to join sosian Scientists spoke at the Faculty of Sci- cieties and become more accountable to the ence. Government Ministers were present, community that funds them. It was quite an and the MSPTM was praised for its initiative interesting exercise, and prompted me to in organising this and several other commu- view Malaysia as a developing country only nity-based schemes involving parasite aware- in mindset, not in means. ness and control. After lunch, there was a poster session, however the authors of the After lunch, oral presentations got underway. posters were nowhere to be seen! I took a Subjects were as diverse as monogenean gill few names and cornered them later.

the 39th Annual Seminar of the Malaysian Java. The Science was good, and it was an Society for Parasitology and Tropical Medi- excellent forum for two of the MSPTM's cine began at 3pm, with talks by the MSPTM Masters students to present their work in. President, Assoc. Prof Dr Suresh Govind, the vice-Chancellor of the University, Prof. Zain, The Annual Dinner: The ASP students were and the keynote address given by Prof. An- asked by Suresh to make a 'cultural presentadrew Thompson (aka "Prof. Andy", "Prof. tion' at the conference dinner. After some de-Anderson"). This was followed by Hi-Tea liberation, Craig made a powerpoint presenand poster presentations. Approximately 140 tation of John Williamson's Home Among the people were present. When Suresh invited Gum Trees (with the assistance of Sonja everyone to come the following day, he said Gauci, who provided him with a live, autohe was "worried that most of you won't be graphed version from her extensive Country

After lunch, the students were broken into here tomorrow". Tomorrow came, and most groups of 15 and taught about parasites. of them weren't. It was quite an eye-opening Members of the Department of Parasitology experience, and indicative of the decay in (University of Malaya) manned 12 displays Malaysian Parasitology that the MSPTM is

morning was devoted to concurrent workshops that focussed on the state of Parasitol-The design of this "tutorial" worked excep- ogy within Malaysia. The workshops aimed dations on tropical disease management, emerging diseases and the environment were

parasites in freshwater aquaculture, to the detection of Cryptosporidium, to the re-12th March 2003: The opening ceremony of emergence of malaria in West and Central

& Western collection). Michelle bought hats Lunch was scheduled from 12:45pm until with dangling corks, and Ying bought clip-on 3pm, something we didn't understand until Koalas to give to members of the audience. we were told that this allowed enough time to The students were ready to perform, with travel to the mosque for Friday prayers (a maximum audience participation. But it was practice observed every Friday by Muslim like the movie The Usual Suspects - the job men), and return to the conference. So, 3pm needed one more guy. That guy was Andy brought the much-anticipated Student Paper Thompson. We had a ball, and did an encore Competition. The Competition, and the enorin which even the kitchen staff joined in.

prised of scientific presentations, most of ment. It was a lot of fun, and a relief when which were given by Masters or PhD stu- finally over! dents. Debate started slowly, but became quite lively, none more so than when a Gov- The MSPTM is organising a similar competiernment scientist in the audience said that the tion to be held next year, and they hope to inwater from the tap was potable, and that all volve students from Canada and Britain, as the criticism of his department was conjec- well as from the ASP and MSPTM. It would ture without scientific evidence. I felt like be well worth the trip, so get those presentafetching a glass of water from the student ac- tions shmicko and get over there! commodation block, and offering him a drink. Unfortunately, he is right: there is no I would like to take this opportunity to sindata to support what the MSPTM scientists, cerely thank the Australian Society for Paraand the people in the community, are saying. sitology, and the Malaysian Society for Para-This event poignantly depicts one of the new sitology and Tropical Medicine. It was an opobjectives of the MSPTM- to meet the need portunity made possible by your generous fiof the community, and provide the data to nancial assistance, but one made great by the support public health reforms.

mous trophy, were the final drawcards in the Parasite Fest, and the pressure and suspense 14th March 2003: The third day was com- were maximised to increase the air of excite-

generous character of all involved.

Wendy Cooper drew our attention to this	Loving water
gem!	And the bowel
	Hidden, small
Britain's most succinct scientist	Cryptosporidium
Published: 21 March 2003	fluorescence sees them.
	Human parasitic protozoan
The winner of The THES 24/7 competition -	In mammals, nice and nasty.
in which contestants had to give a seven-	Environmental epidemics
word summary of their research and explain	Intestinal Armageddon
it in 24 seconds - is A. Sturdee of Coventry	You get sick
University	Aches and pains
	dehydration
Subject: Cryptosporidium	No drugs that work
	be not impatient
In 24 seconds :	Your system may prevail
Oocysts travel faecal-oral	
Making millions	In seven words:
Infecting thousands	Cryptosporidium means a fortnight on the loo

Ian Sutherland from CSIRO drew our atten- See the microvilli of the gut, tion to this after-dinner speech given at last Where the trichostrongyles dance, year's New Zealand Society for Parasitology In orgies of entwining lust, by Allen Heath, AgResearch, Wallaceville.

THE BALLAD OF PARASITE LIFE (AND DEATH).

When a man gets old and his face unfolds, And his bits are no longer new, When he knows most of the frights that involve parasites, He'll tell you a tale or two.

Now list' to me and sit quite close, And a tale to you I'll spin, Of parasites and their blighted hosts, That they infest or feed within.

There are nematodes, and ticks and flies, And flukes and tapes and keds, And fleas and mites and sucking lice, And bugs that hide in beds.

These little creatures feed on blood, Or on your skin they sit, And some with neither taste nor style, Prefer to live in shit.

They penetrate, they defecate, And some just sit and soak, Atop the lining of your gut, Until the day you croak.

Some burrow in your membranes, Or sequester in your glands, And some just enter with your food, If you forget to wash your hands.

They place their eggs or oocysts, In ducts and diverticula, While some are subcutaneous, And irritate and tickle ya.

The bile duct and intestine, Are home to fluke and strongyle, And even after drenching, They sometimes stay a long while. Then they leave the rest to chance.

Dispensing their eggs to the flowing slime, And remnants of digestion, There, mixed and moulded to steaming turds, In the grip of the small intestine.

If these images of gastric life, Are somehow not to your liking, Spare a thought for the pubic louse. Who must take a crutch, when hiking.

In fact, the types of lice are few in number, Just the chewing and the sucking, Like the one who lives in your pubic hair, Just where your undies tuck in.

There're mites that chew, and those that suck.

And burrowers like Sarcoptes, That give promiscuous humans hell, But nothing like Chorioptes.

That tiny mite of scrotal mange, Has macroscopic gall, As it slowly strides on each ram's pride, Raising scabs on every ball.

Little *Demodex*, the follicle mite, In biology and shape is simple, It comes onto the skin from your nasal crease. In pus that's squeezed from pimples.

The Ixodidae are an interesting group, And are commonly called the hard ticks, But the name has some malice, it's not about phallus. Because male pricks get their kicks without pricks.

There are many more I have ignored, But it would take a longer list, And you would soon get very bored, Preferring to get pissed.

This catalogue of awful beasts Makes every layman shudder, But Parasitologists just smile, They are their bread and butter.

They are theirs' to study and control With dips and anthelmintics, So sit awhile, and I tell to you, A little of those antics.

The drenching guns are loaded up, The sheep are penned and ready, The samplers sniff the morning air, For the smell of shit is heady.

The sheep are crowded in the race, The latex gloves are snapped on, The gumboots save their dainty feet, From being stepped and crapped on.

Their facile fingers flex and crack, Only one is held out straight, To pierce the woolly nether parts, Where the shiny pellets wait.

The rigid knee prevents escape, The left hand grasps the neck, The darting digit finds its mark, Each sheep's a nervous wreck.

The flighty, startled maiden ewes Begrudge each small deposit, But many a shy, uncertain wether, Has come out of the closet.

When every stubborn rectum Has yielded up its load, And the sample jars sit steaming, It's time to hit the road.

Back to lab. and saline, Back to mix and mount, To search for all those floating eggs And carry out the count.

Now, what about the ecto types Who do not drench but dip, Who do not use a furtive grope, Or fear the rectum's grip? Those noble types who smile a lot, Who rarely groan or grouse, As they search for maggot, mite and ked And the little scuttling louse.

Their eyes are keen, they scrutinise, They search each reeking dag For signs of the eggs the blowfly lays, After her one and only shag.

The crawling mass of maggots bold, The proteinaceous slurry, The rich aroma's clinging pong, Is not the 'wormy's' worry.

The Platyhelminthologists, The wormy lads and lasses, Have nothing in their world so bad, As the sight of fly-struck arses.

The weeping, reddened, angry skin, Alive with writhing rice, The maggots as they suck and stink, I can't make it sound more nice.

Let's leave this scene of larval carnage, I don't want to make you sick, Let's look a while at something bland, The louse and rotund tick.

These little buggers scrape your skin, Causing dermatitis miliary, Or penetrate quite deeper still To find a full capillary.

If you let a louse upon a sheep, The end result is cockle, And not just one will have the lumps, Fairly soon the whole damn flock will.

Each month the louse makes one large egg, She's not too energetic, But males just have to do without, For she's parthenogenetic.

The tick meanwhile, just sits and sucks, Her need for blood is drastic, The male can only wait and sigh, For his scutum's not elastic.



His spermatophore is waiting poised, He's getting really randy, But while she expands and fills with blood, Her aperture's not handy.

At last her hypostome comes free, It's time for her to roam, Then he slips beneath his lady love, And slides his packet home.

But enough of this lascivious talk, It's ectopornographic, Let's just see how dipping's done, It's fun, but sometimes havoc.

You mostly use a farmer's gear, An old shower with rusted nuts, Just pour some petrol in the tank, Then kick her in the guts.

The sump is small and full of slime, The yards are full of shit, But beggars can't be choosers boy, Just make the best of it!

It's been a year since she's been used, But she always works first go, What do ya mean the nozzles are blocked? What do you townies know?

The power is on, but nothing works, Blast the bloody pump! Naught but dribbles from the shower, There's a hedgehog in the sump!

At last the boom is spinning round, Like the rotor on a chopper, The sheep are stunned, but stay quite dry, Though neither yards, nor grass, nor crop are.

What's with the gloves and plastic leggings? I won't play your sissy game, I've used Ops for 30 years, And I can just recall my name.

I've used a plunge, and with bare feet I've pushed those woollies under, And afterwards I've walked in circles, And had a little chunder. But, spare me days and spare me sermons, I'm not getting any strife; I might look like I've got Parkinsons', But it satisfies the wife.

Another long day's dipping done, We head home with quiet elation, Then bugger me, I've had a thought, We didn't add the formulation.

So there we have the dirty side, Our discipline's hard core, The bucket chemistry brigade, Do I need to tell you more?

But only half the story's told, If gene jockey's aren't mentioned, They spend their day slicing DNA, They're dim but well intentioned.

Like alchemists in modern dress, Lighting dark genomic nooks, With the help of faith and PCR, And flabby rubber chooks.

They manipulate and cannulate The lymphatic system splenic, And poke holes in poor *C. elegans*, To make it go transgenic.

Their days are filled with acronyms, Their nights are filled with dreams, Where vaccines outwit drenches, With megalomaniacal schemes.

You've listened long and patiently, To many tales of old, Where the wily parasitologist, Goes in search of research gold.

To the layman's ear they sound arcane, And even sometimes weird, But their lives and ours are much the same, Not as different, as they feared.

For, no matter what I've told you, And what you think of it, No matter what we do in life, We're always in the shit.



RSFAS

News Story by Lori Bona Hunt

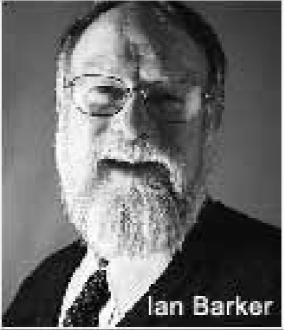
When Health Canada decided it needed a national strategy to deal with the challenges posed to public and animal health by the imminent arrival of West Nile virus, it turned to the country's four veterinary colleges.

The year was 1999 and the mosquito-borne West Nile virus had just begun to create fear and confusion in New York. Commonly found in Africa, Eastern Europe and the Middle East, West Nile virus is carried by mosquitoes but also infects birds, horses, humans and some other mammals.

Officials from the Canadian Co-operative Wildlife Health Centre (CCHWC) - a network of wildlife health experts at U of G's Ontario Veterinary College, the Faculty of Indeed, Health Canada "was starting from Veterinary Medicine at the University of scratch," says Buck, and it was logical to be-Montreal, the Atlantic Veterinary College at gin with the nation's veterinary schools. the University of Prince Edward Island and "Veterinarians have a very important role to the Western College of Veterinary Medicine play in public health," he says. "Our backat the University of Saskatchewan - were ground and training are quite broad, and among a group called to a special meeting in many of the diseases that affect animals also Ottawa.

"We had been watching the situation in the other than just how it affects people." In ad-United States very closely," says Peter Buck, dition, the four wildlife centres are an epidemiologist with Health Canada's "wonderful partners," he says. "They have Population and Public Health Branch and an tentacles that stretch across the entire coun-OVC graduate (DVM '93 and M.Sc. '96). "By try, including elaborate links with various the end of 1999, we realized we'd better get wildlife agencies and groups and ministries our ducks in a row, so to speak, and make of natural resources and conservation." plans for surveillance and response in Canada."

OVC pathobiology Professor Ian Barker, charged with the task of organizing a national who directs the Ontario/Nunavut region of plan for West Nile virus surveillance in dead CCWHC, travelled to Ottawa in February birds. Barker, who also serves on Health 2000. "It was unique and precedent-setting Canada's West Nile virus steering committee, for us (CCWHC) to be involved in an activity co-ordinated the CCWHC surveillance systhat was more focused on public health than tem and implemented it in Ontario through animal health," says Barker. "At the time, facilities shared by OVC and the Animal very few people knew anything about West Health Laboratory. "The idea was that we Nile virus."



affect humans. It's important to have an understanding of all the issues behind a disease

Because of its experience in monitoring wildlife disease across Canada, CCWHC was would monitor and detect West Nile virus activity in the ecosystem using dead birds, and



health preventive measures."

This has meant that for the past three years, narian in OVC's avian and exotic animal serpublic-health units across the province have vice who runs U of G's Wild Bird Clinic. been shipping dead birds — mostly crows, "The University has, collectively, been there the province's unofficial sentinel — to since day one, playing a key role in keeping Barker's lab at OVC. Specimens are collected people informed." and sent to Health Canada's National Microbiology Laboratory in Winnipeg for detection Environmental biology researcher Jamie of West Nile virus. "At times, we've been Heal's role began in the summer of 2000. He swamped," he says. This year alone, about and summer student Marjorie Gratton-5,500 birds arrived at the nation's wildlife Ferguson analysed more than 50,000 mosquicentres, one-third of them in Guelph, and toes for Health Canada. The mosquitoes were more than 3,500 have been tested.

"Ian Barker and the regional wildlife centres tify. The lab has been working with mosquihave played a very important role in the sur- toes and repellent for some 15 years. They veillance and early warning system for hu- were looking for the Culex pipiens/restuans man health," says Buck. The dead birds that species, which is common in Ontario and can test positive for West Nile virus provide early carry West Nile virus. Making an accurate warning signals to health units across the identification required Heal and Grattoncountry, letting them know where the virus is Ferguson to examine the insects under a miactive and where human cases might appear, croscope. It was a painstakingly slow proche says. Other veterinarians central to the re- ess. The mosquitoes had to be alive but cold, sponse in Ontario include OVC graduates so they wouldn't move around too much on Chuck Le Ber, DVM '71 and Grad Diploma the microscope's slides. "We would identify '77, and Dean Middleton, B.Sc. '86, DVM '87 them by things such as hair and scales," Heal and M.Sc. '95. Both are epidemiologists who says. co-ordinate Ontario Ministry of Health and Long-Term Care activities related to West Mosquitoes were frozen and shipped to Win-Nile virus, helping to promote awareness nipeg for further tests to determine if they about how individuals can protect them- carried West Nile. This was an important first selves

Canada were confirmed in the fall, and in bird population came in August 2001 when it November, a cancer patient from Cambridge was detected in a crow from Windsor. A year died after becoming infected with the virus. later, OVC's Veterinary Teaching Hospital Throughout it all, Barker has been inundated confirmed the first case of West Nile in a with calls from media and the general public horse in Ontario. The hospital went on to looking for background information and up- treat 28 horses with the virus last summer dates. But he doesn't mind the extra effort. and fall. "To me, public service is part of our role as faculty. The government and public are all In addition, the Wild Bird Clinic cared for our clients, in one way or another." That phi- about 30 wild birds such as red tail hawks losophy of public service is prevalent at OVC and owls that were also ailing from West and in many other colleges at the University, Nile, says Taylor. "We've just been waiting where faculty and staff have been at the fore- and watching for it for a long time. What did front of West Nile virus surveillance, detec- catch me by surprise was how vigorously it tion and treatment.

do it in a timely manner to permit public "We've all been aware that West Nile virus was moving northward for a number of years," says Michael Taylor, the staff veteri-

> collected from various locations throughout Ontario and were sent to Heal's lab to iden-

step in verifying that West Nile virus had crossed the U.S.-Canada border. The first The first human cases of West Nile virus in confirmation that the virus was in Canada's

spread." Clinical studies professor Scott

Weese, a specialist in large-animal infectious Both horses and people are considered "deadjust didn't know when."

Among the first group of horses treated for horse with West Nile is bitten by a mosquito, West Nile virus was a two-year-old thor- it's not enough for the virus to be transmitted oughbred from Westhaven Farm in Caledon. to someone else." The exception appears to Farm manager Bob Hancock knew some- be transmission through a blood transfusion thing was dreadfully wrong with the race- or organ/tissue transplants. Scientists and horse-in-training. "He seemed confused and doctors at Health Canada are still trying to was stumbling and falling down. It happened determine how a Cambridge woman underso fast. The horse had been training on a going cancer treatment contracted the virus track in Etobicoke, and two hours after run- from a blood transfusion. They believe it was ning, he was showing these signs. The doctor due to the compromised state of her immune at the track put two and two together and said system and the fact that transfusions often inhe thought it was West Nile."

There was no hesitating. The horse was loaded into a trailer and taken to OVC, "the It's another situation entirely in the bird only place that could handle it," says Han- population. Although not all species of birds cock. He was convinced the animal would infected with West Nile virus get sick, some never race again or that it might not survive are particularly prone to develop the disease. at all.

frightening owners and horses alike, it actu- birds have a higher level of the virus in their ally has better survival rates than most other blood, so they're hosts that help replicate the neurological disorders, between 60 and 70 infection," says Taylor. "They can transmit per cent, says Weese. "And the horses that the virus through their blood or secretions. survive tend to do well." Indeed, after about a We had to be really careful in how we hanweek of treatment, the thoroughbred from dled and housed these birds." Hancock's farm recovered, as did about 60 per cent of the confirmed cases that were He notes that although West Nile didn't affect treated at OVC.

Weese goes on to explain that West Nile vi- year), it did dramatically change the demogrus has no specific pattern in horses. "In peo- raphy."We were admitting a different group ple, it seems to affect those who are older or of birds during the summer than we have in have weakened immune systems, but in the past eight years I've been here. We were horses, young and healthy animals appear to seeing more birds that were truly ill and not get sick as often as older ones," he says. It's just traumatically injured, and that seems to also unclear why horses — like people — ap- go along with the West Nile picture." pear to be more susceptible to the virus than other animals are.

Weese notes that although vaccines are avail- aviaries that were hard hit by the virus. One able, their effectiveness is uncertain. He does owl breeding and rehabilitation sanctuary in predict that there will be widespread vaccina- Niagara that was investigated by pathobioltion of horses in Ontario in 2003, and says ogy professor Bruce Hunter saw nearly 80 the Large Animal Medicine Section is recom- per cent of its population destroyed. Scienmending vaccination of horses this spring.

disease, agrees. "We knew it was coming; we end hosts" of West Nile, meaning they can't spread it. "They have low levels of the virus in their blood," says Weese. "If a person or a volve a number of different blood components from many donors.

These include members of the crow family, hawks and owls and even some pet birds. Although West Nile does come on suddenly, "We know, based on research, that infected

> the number of birds treated at the Wild Bird Clinic (typically between 500 and 1,000 a

> The Wild Bird Clinic also provided advice and support to wild bird rehabilitators and tists are still trying to figure out why some

mosquito species carry West Nile and others incorporated into Health Canada's 2003 plando not, says Heal. The Culex pipiens/restuans ning and strategy sessions. species is known to prefer feeding on birds,

"but there are other species and even other "Predicting what's going to happen in 2003 is insects, such as blackflies and deer flies, that extremely difficult," says Buck. "West Nile is also bite birds and mammals." For now, the new to the Western Hemisphere, so there's a best option for prevention is public educa- steep learning curve here to figure out this tion, teaching people how to reduce mosquito virus and exactly how it will persist in the populations and avoid encounters by dressing ecosystem," he says. This includes determinproperly and using repellents, he says.

an option. They are a natural part of the eco- in native mosquitoes), the degree of its introsystem." The cold winter weather has pro- duction into an area by migratory birds and vided a reprieve from the spread of the virus, the size of this year's mosquito population, which Taylor says he is using to prepare for which is determined by a variety of climatic the next wave. He's focusing on education conditions. programs aimed at owners and breeders of wild and pet birds. "We have to get the word Weese adds that recent information from the out there about what to do prevention-wise. I United States based on virus levels in mosthink the captive bird population is the next quitoes suggests that the peak of the disease to be hit "

Winter has also given Barker some catch-up the dead birds submitted during 2002 before time. He spent the first three years determin- mosquitoes start to make their appearance ing whether dead birds were carrying the vi- this year. rus, but says the scope of his work has now changed. West Nile is active in Canada, "so The next goal is to take the information colthe question now is, what to do about it?" lected and use it to make predictions about Technicians working in Barker's lab and oth- which areas of Ontario and Canada pose the ers across the country have been accessioning greatest public-health risk, based on mosand dissecting dead birds, collecting speci- quito and human population. mens, then posting, tracking, mapping and accounting activity on national Web sites.

"West Nile has implications for wildlife PhD '95, a medical entomologist with Health populations, zoos, endangered species, han- Canada. "I'm very pleased with what's been dlers, wildlife rehabilitators, veterinarians done so far," says Barker. "We've had huge and animal and pet owners," says Barker. geographical and jurisdictional issues to deal "But it also has significant implications for with, but the information has been getting out public health." This is a fact Health Canada to the public-health agencies, and I think it's knows all too well. It used the information safe to say we've had some impact. It's been generated by CCWHC and the Winnipeg lab very interesting to be involved in such a to provide daily updated tables and maps multi-faceted, multidisciplinary and multishowing West Nile virus activity across the agency project and see it work, despite a fair entire country. The information will also be number of obstacles."

ing which bird species will be the reservoir host, how effective the virus was at "Completely eliminating mosquitoes is not "overwintering" (surviving the cold weather

> is likely a few years away. In Barker's lab, technicians work to finish their analysis of

In this step, Barker will be working with yet another Guelph graduate, Robbin Lindsay,

Late News: The University of Guelph Faculty Association honoured Dr Ian Barker of the Department of Pathobiology with an award recognizing his commitment to teaching. Barker, a wildlife and zoo animal pathology expert who works on Lyme disease, West Nile virus and gastrointestinal pathology, received a Distinguished Professorial Teaching Award. A supporter for his nomination wrote "His enthusiasm for scientific investigations is infectious.".

Announcing a special issue:



Vaccines in the 21st Century: Expanding the Boundaries of Human and Veterinary Medicine

Guest Editor: D.A. Brake

International Journal for Parasitology, Volume 33 (5-6)

Invited Reviews

- Technical and regulatory hurdles for DNA vaccines J. Donnelly, K. Berry, J.B. Ulmer
- Recent advances in veterinary vaccine adjuvants
- M. Singh, D. T. O'Hagan
- Plant-Based Vaccines S.J. Streatfield, J.A. Howard
- Hemolysin A and Listeriolysin two vaccine delivery tools for the induction of cell-mediated immunity *G. Dietrich, J-F. Viret, I. Gentschev*
- A review of the effectiveness of vaccine potency control testing
- D.S. McVey, J.F. Galvin, S.C. Olson
- Hepatitis vaccines: recent advances *R.S. Koff*
- Experimental vaccines against measles in a world of changing epidemiology
- M.M. Putz, F.B. Bouche, R.L. deSwart, C.P. Muller
- Recent progress in the development and testing of vaccines against human tuberculosis *D.N. Murray*
- Development of vaccines to control bovine tuberculosis in cattle
- B.M. Buddle, J.M. Pollock, M.A. Skinner, D.N. Wedlock
- Traditional and novel approaches to flavivirus vaccines K.V. Pugachev, F. Guirakhoo, D.W. Trent, T.P. Monath
- Vaccine research efforts for filoviruses *M.K. Hart*
- Exploiting immune mechanisms for cancer vaccine efficacy
- G. Cunto-Amesty, B. Monzavi-Karbassi, P. Luo, F. Jousheghany, T. Kieber-Emmons
- Rational antibacterial vaccine design through genomic technologies G. Grandi
- Helminth vaccines: from mining genomic information for vaccine targets to systems used for protein expression
- J.P. Dalton, P.J. Brindley, D.P. Knox, P.J. Hotez, C.P. Brady, S. Donnelly, S.M. O'Neill, G. Mulcahy, A. Loukas
- T cell epitope identification for bovine vaccines: an epitope mapping method for BoLA A-11 A.S. De Groot, V. Nene, N.R. Hegde, S. Srikumaran,
- J. Raynor, W. Martin
- The effectiveness and limitations of immune memory: understanding protective immune responses *M. Campos, D.L. Godson*

to treat an infectious animal-derived disease in the late 18th century (Jenner, 1798) and continuing into the early 21st century with the commercialization of multivalent recombinant human and veterinary medicine vaccines, the art and science of vaccinology over the past 200 years continues to evolve and expand in promising ways. Global and national disease eradication vaccination campaigns have contributed to the significant decline and in some cases the eradication, of infectious diseases responsible for the morbidity and mortality of humans and livestock. Although we have largely won the global battle against smallpox, polio, rinderpest and vesicular stomatitis virus, old enemies such as malaria and tuberculosis and new foes such as HIV, West Nile virus and highly pathogenic avian influenza virus require new innovative strategies for the battlefield and ultimately, for final defeat.

Beginning with the first intentional immunization of a human

New scientific discoveries and technical innovations have created the path on which bacteriologists, virologists and parasitologists engaged in infectious vaccine research and development currently tread. Very recently, oncologists, gastroenterologists and neuroscientists have also joined the quest as experimental prophylactic and therapeutic vaccines for cancers, gastric ulcers and Alzheimer disease have begun to emerge out of the laboratory and into human clinical trials. This thematic issue provides a snapshot of the many important facets of vaccine research and development and how new discoveries and emerging technologies are being implemented to design and test potent new weapons against human and animal diseases.



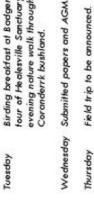
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Program Outline (subject to change)

Monday

Sunday

ence in Healesville, Victoria. Accommoda-Yarra Valley Healesville is only an hour's tion and presentations will take place at base to explore wineries, national parks offers a selection of accommodation options ranging from unpowered tent sites website at www.badgercreekholidays. 5962 3595. Located in the picturesque The WDA is holding the 2003 Conferthe Badger Creek Caravan Park, 419 Don Road, Healesville 3777. The Park to ensuite cabins. Check out the Park's com.au. Reservations should be made drive from Melbourne and a perfect directly: Ph 03 5962 4328, Fax 03 or go on that special balloon flight.

Friday



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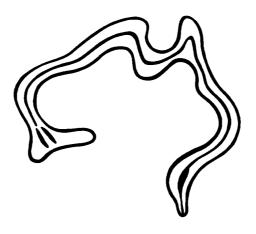
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