

PROGRAM

Saturday, July 22, 2000

11:00 AM-7:00 PM Registration
Salon F Foyer

10:00 AM-1:30 PM AAVP Board Meeting
Salon J

2:00-2:15 Opening Remarks

Room: Salon F

President: R. Rew

Vice President & Program

Chair: A. Zajac

Session I Room: Salon F

MERIAL THIRD ANNUAL SYMPOSIUM

**Computers as Tools for the Veterinary
Parasitologist**

Moderator: J Guerrero

2:15 1 Computers as tools for the economic evaluation of parasitic impact on animal production. D. T. Galligan

2:45 2 Computer-based Reconstructions of the Anterior Sensory Nervous System of Nematode Larvae: Structure/Function Relationships with Respect to the Infective Process. G.A. Schad

3:15 3 Pretty Pictures, and Prevention: Potential Uses of GIS in Parasitology. R.A. Thompson

3:45-4:00 Break

Session II Room: Salon E

Topic: Companion Animal Parasites

Moderators: K. Kazacos, T. Kennedy

4:00 4 The Efficacy Of Milbemycin Oxime/Lufenuron and Selamectin in Treating Adult Intestinal Nematodes (*Ancylostoma caninum*, *Toxocara canis*, and *Trichuris vulpis*). D.D. Bowman*, D.G. Stansfield. J.H. Thoren

4:15 5 An Indirect Enzyme-Linked Immunosorbent Assay For Diagnosis of American Canine Hepatozoonosis. J. S. Mathew*, J. T. Saliki, S. A. Ewing, T. W. Lehenbauer, R. J. Panciera, J. R. Malayer, C. A. Cummings, A. A. Kocan.

4:30 6 Efficacy of Moxidectin Canine SR (Slow-Release) Injectable Against Experimental Hookworm (*Ancylostoma caninum* and *Uncinaria stenocephala*) Infections in Dogs. D.D. Bowman*, J.W. McCall, P Supakorndej, N. Supakorndej, S.D. McCall, R.M. Cleale, P.J. Scholl, R.D. Rulli

4:45 7 Efficacy of a 10% Moxidectin Sustained Release (SR) Injectable Against Natural Hookworm and Roundworm Infections. K. Heaney*, R. L. Slone, L. R. Cruthers

5:00 8 "Out Of Africa": Massive Visceral Pentastomiasis in A Dog. R. Kazacos*, E. J. Kapke, W. R. Widmer, C. E. Fishman.

5:15 9 The Use of a *Giardia* Vaccine as an Immunotherapeutic Agent in Dogs. M. E. Olson, C. Hannigan, P. Gaviller, L. Fulton

5:30 10 A Survey of Canine Visceral Leishmaniasis in the City of Recife, Northeastern Brazil. A. D. Lima Junior*, L. C. Alves, E.S.M. Savani Mouriz, M.C.G.O Nicoletti Dáuria, S.A.Balduino,

Saturday, July 22, 2000 continued

Session III Room: Salon F
Topic: Equine Parasitology
Moderators: T. Klei, J. Johnson

- 4:00 11** Equine Antibody Responses to Somatic L3 and Surface Antigens of Cyathostomes. M.A. Baudena*, M. Kara, M.R. Chapman, T.R. Klei
- 4:15 12.** Modulation of Equine T-Cell Responses to *Strongylus Vulgaris*. J. D. Johnson, * D. W. Horohov, R. M. Moore, M. R. Chapman, S. S. Pourciau, L. A. Mistic, T. R. Klei
- 4:30 13** Treatment of Equine Protozoal Myeloencephalitis with Nitazoxanide. Clara K. Fenger*, Kathleen Palma, Dorsey Kordic
- 4:45 14** Population Dynamics of Oribatid Mites on Horse Pastures in North Central Florida. M.E. Jordan*, C.H. Courtney
- 5:00 15** An In Vitro Hatching Technique for *Gasterophilus intestinalis* Research. T.R. Bello
- 5:15 16** Parasite Control from the Horse Owner's Perspective. T.R. Bello
- 5:30 17** Prevalence and Mean Intensity of Cyathostomes (Cyathostominae: Strongylidae) of Ventral Colon of Equids Naturally Infected from the State of Pernambuco., Brazil. M.P. Souto-Maior*, L.C. Alves, R. A. Mota, G. M. Carvalho-Junior, C. L. Barbosa

Session IV Room: Salon F
BAYER ANIMAL HEALTH SYMPOSIUM
Companion Animals: Insecticide Monitoring
Moderators: B. Arther, N. Mencke

- 6:00 18** Susceptibility of Fleas to Control Agents: Development of a Monitoring System. M. W. Dryden*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughn
- 6:15 19** Flea Insecticide Resistance: A Perspective from Veterinary Parasitology. B. L. Blagburn*, D. L. Bledsoe, I. Denholm, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughn
- 6:30 20** Prospects for Combating Insecticide Resistance in Cat Fleas (*Ctenocephalides felis* Bouche' 1835): Lessons from Other Pests. I. Denholm*, B. L. Blagburn, D. L. Bledsoe, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughn
- 6:45 21** Development of Bioassays to Determine Flea Susceptibility to an Insecticide: Standardization of Laboratory Methods. D. E. Jacobs*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, H. Melhorn, N. Mencke, M. K. Rust, M. B. Vaughn
- 7:00 22** Bioassay Results of Laboratory Raised and Field-Collected Strains of the Cat Flea (*Ctenocephalides felis* Bouche' 1835). M. K. Rust*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, M. W. Dryden, O. Hansen, N. C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. B. Vaughn

Saturday, July 22, 2000 continued

7:15 23 Outlook into the Future: New Perspectives to Safeguard Insecticides. O. Hansen*, B. L. Blagburn, D. L. Bledsoe, I. Denholm, M. W. Dryden, N.C. Hinkle, T. Hopkins, D. E. Jacobs, H. Mehlhorn, N. Mencke, M. K. Rust, M. B. Vaughn

7:30 - 9:30 PM Room: Salons A-D
BAYER ANIMAL HEALTH WELCOMING RECEPTION

Sunday, July 23, 2000

Session V Room: Salon E
Topic: Cattle Nematode Management
Moderators: C. Reinemeyer, B. Stromberg

8:00 24 Therapeutic and Persistent Efficacy of the 1% Nonaqueous Injectable Formulation of Moxidectin Against Nematode Parasites of Cattle. S. Ranjan*, K. L. Simkins

8:15 25 Dose Confirmation Study of a 1% Moxidectin Nonaqueous Injectable Formulation Against Both L4 Larval and Adult Stages of *Dictyocaulus viviparus*, *Haemonchus placei*, and *Trichostrongylus axei* in Cattle in Wisconsin. L. Smith*, P. J. Scholl, R. Delay

8:30 26 Persistent Efficacy of Moxidectin Injectable Solution Against Artificially Induced Nematode Infections in Cattle. B. E. Stromberg*, G. A. Averbeck, J. F. Anderson, P. J. Scholl

8:45 27 Dose Confirmation Studies of Moxidectin 1% Injectable and 0.5% Pour-On Formulations Against Experimentally-Induced Infections with

Larval and Adult *Oesophagostomum radiatum* and *Trichuris* spp. in Cattle. C. R. Reinemeyer*, R. M. Cleale

9:00 28 Dose Confirmation of Moxidectin 0.5% Pour-On Against Adult and Fourth Stage Larvae of *Cooperia* Spp. and *Trichostrongylus colubriformis* in Calves. J. C. Williams, A. Derosa, B. Louque, F. Guerino

9:15 29 Comparison of Liquid and Block Supplement Free-Choice Intake in Cattle. K. C. Garossino*, T. A. McAllister, D. N. Milligan, B. J. Ralston, M.E. Olson

9:30 30 Internal Parasite Effects on Beef Heifers. A. F. Loyacano*, J. C. Williams, J. Gurie, A. DeRosa

9:45 31 Management Practices and Use of Anthelmintics on Dairy Cattle Farms in Agreste Region of Pernambuco State, Brazil. J. Pompeu*, M.J. S. Pereira, L. C. Alves, J. B. Oliveira

10:00-10:30 Break

Session VI Room: Salon F
Topic: Apicomplexan Parasites
Moderators: D. Lindsay, A. Cheadle

8:00 32 Serological Responses of Dogs Fed *Neospora Caninum* Tissue Cysts. A. C. Rosypal*, A. M. Zajac, D. S. Lindsay

8:15 33 Identification of Immunodominant Antigens Recognized by Cattle with Acute and Chronic *Neospora caninum* Infections Associated with Abortion. R.M. O'Handley*, M.C. Jenkins, C. Bjorkman, A. Uggla, J.P. Dubey

8:30 34 Biological Characterization of *Sarcocystis neurona* Isolated from a Southern Sea Otter (*Enhydra lutris nereis*) D. S. Lindsay*, N. J. Thomas, B. M. Rosenthal, J. P. Dubey

Sunday, July 23, 2000 continued

8:45 35 *In Vitro* Culture of *Sarcocystis* Sporocysts in Equine Dermal Cells Long Term as a Method for Distinguishing *Sarcocystis neurona* and *Sarcocystis falcatula*. L. S. Mansfield, A. J. Murphy*, K. Nelson, P. Gearhart

9:00 36 Viability of *Sarcocystis neurona* Sporocysts and Dose Titration in Gamma-Interferon Knockout Mice M. A. Cheadle*, S. M. Tanhauser, J. B. Dame, Robert J. Mackay, And E. C. Greiner

9:15 37 Efficacy of Ponazuril Oral Suspension in Preventing Death in Mice Experimentally Infected with *Neospora caninum*. T. J. Kennedy, L. C. Stine-Purtle, J. A. Hall

9:30 38 *In Vitro* Quantitative Analysis of ³H-Uracil Incorporation By *Sarcocystis neurona* to Determine Efficacy of Anti-Protozoal Agents. J. Lakritz*, A E. Marsh

9:45 39 Characterization of the First Commercial *Neospora* Vaccine. L. Choromanski*, M. Vaughn

10:00-10:30 Break

Session VII Room: Salon E

Topic: Small Ruminant Parasites

Moderators: D. Jasmer, C. Monahan

10:30 40 The Effect of Corticosteroid Treatment on the Immune Response to *Haemonchus contortus* Infections in Neonatal Gulf Coast Native Lambs. M. Peña*, J. Miller, D. Horovov, S. Barras, S. Pourciau

10:45 41 Field Evaluation of ConAH11-HgalGP Experimental Vaccine in Pre-Weaned and Weaned Lambs. E. K. Kabagambe*, M. T. Peña, W. D. Smith, J. E. Miller

11:00 42 Anthelmintic Efficacy Against Gastrointestinal Nematodes of Two Georgia Goat Herds. O. M. Samples*, T. H. Terrill, R. M. Kaplan, M. Larsen, S. Mobini, L. H. Williamson, S. Gelaye

11:15 43 Biological Control of Gastrointestinal Nematodes in Goats Using Nematode-Trapping Fungi. T.H. Terrill*, O. M. Samples, M. Larsen, J.E. Miller, C. M. Mathews, S. Gelaye

11:30 44 Assessment of Residual Anthelmintic Protection Afforded to Lambs Grazing an Infected Pasture Following 3 Different Anthelmintic Treatments. C. Monahan*, W. P. Shulaw, C. Little

11:45 45 Is There Any Effect by Dietary Diatomaceous Earths in the Control of Gastrointestinal Nematodes? L. Nuti, B. Johnson, D. McWhinney, N. Elsayed, J. Thompson, T. Craig*

12:00 46 Comparative Efficacy of Doramectin, Ivermectin, Albendazole and Albendazole-Closantel Mixture Against Natural Nematode Infection in Awassi Sheep and Local Goats in Jordan. M.N. Abo-Shehada*, A. H. Atta, B. Arab, P. Torgerson

12:15-1:15-LUNCH

Sunday, July 23, 2000 continued

Session VIII Room: Salon F
Topic: Diagnostic Parasitology
Moderators: A. Gajadhar, K. Snowden

- 10:30 47** The Use of a Quality Assurance Program to Ensure Reliable Test Results. L.B. Forbes*, A. A. Gajadhar, W. B. Scandrett
- 10:45 48** Development of Improved Diagnostic Procedures for *Cysticercus bovis*. W. B. Scandrett*, S. E. Parker, O. A. Ogunremi, L. B. Forbes, A. A. Gajadhar
- 11:00 49** Evaluation of a Fluorogenic Real-Time PCR Assay for the Detection of *Toxoplasma gondii* in Biological Samples. L. H. Jauregui*, J. Higgins, D. Zarlenga, J. K. Lunney
- 11:15 50** Flow-Cytometry for Determining the Viability of Oocysts of *Cryptosporidium parvum* Recovered from Chambers. S. Kato*, D. D. Bowman
- 11:30 51** Comparison of Performance of Heartworm Antigen Test Kits in Dogs Having Low Worm Burdens. C. H. Courtney*, Qi-Yun Zeng
- 11:45 52** Study to Determine the Performance of Commercially Available Canine Heartworm Antigen Test Kits. J.W. McCall*, N. Supakorndej, A. R. Donoghue, R. K. Turnbull
- 12:00 53** Identification and Antigenic Characterization of Brazilian Isolates of *Anaplasma marginale* Through Indirect Fluorescent Antibodies Technique and Western Blot with Monoclonal Antibodies. J.B. Oliveira, C.R. Madruga, M.A. M. Schenk, C.L. Massard, G.H. Palmer, J. Pompeu.

12:15-1:15 LUNCH

Session VIII Room: Salon F
AAVP SYMPOSIUM
Perplexing Protozoan Zoonoses: *Giardia* and *Leishmania*
Moderator: A. Zajac

- 1:15 54** Towards a Better Understanding of The Zoonotic Potential of *Giardia* Infections: The Impact of Molecular Epidemiology. R.C. A. Thompson.
- 2:05 55** Clinical Update on Small Animal Giardiasis. M. R. Lappin
- 2:45 56** Canine Visceral Leishmaniasis- United States. P. M .Schantz
- 3:15-3:30 Break**

Session X Room: Salon E
Dirofilariasis
Moderators: D. Bowman, A. Donoghue

- 3:30 57** Field Evaluation of a Moxidectin Sustained Release Injectable Formulation for the Prevention of Heartworm Disease in Dogs. D. Rock*, K. Heaney, D. Peterson, W. Barton, S. Levy, L. Smith, And T. Terhune
- 3:45 58** Clinical Observations from the Administration of Moxidectin Canine Sustained Release Injectable in Ivermectin Sensitive Dogs. A.J. Paul *, D.E. Hutchens, R. M. Cleale, W. Tranquilli
- 4:00 59** Further Evidence of Clinical Prophylactic (Reach-back) and Adulticidal Activity of Monthly Administrations of Ivermectin (Heartgard Plus™) in Dogs Experimentally Infected with Heartworms. J. W. McCall*, N.

Supakorndej, A. M. Mansour, M. T.
Dzimianski, S. D. McCall

Sunday, July 23, 2000 continued

- 4:15 60** Clinical Observations Following the Administration of Moxidectin Canine Sustained Release (SR) Injectable in Heartworm Positive Dogs. B. L. Blagburn*, J. M. Butler, J. L. Vaughan, R. Dino Rulli
- 4:30 61** Six Month Prophylactic Efficacy of a Sustained Release 10% Moxidectin Injectable Against *Dirofilaria immitis*. J. McCall*, J. Lok, D. Knight, M. Dzimianski, R. Cleale, W. Steber, M. K. Heaney
- 4:45 62** Effect of *In Vitro* Exposure to Melarsomine Dihydrochloride (Immiticide®) on Adult *Dirofilaria immitis* Transplanted into Heartworm Naïve Beagles. J. W. McCall, M. T. Dzimianski*, N. Supakorndej, P. Supakorndej, A. M. Mansour
- 5:00 63** Distribution, Prevalence and Relative Risk of Filariasis in Washington State Dogs 1997-1999. J.H. Theis*, F. Stevens, M. Law
- 5:15 64** Study on Prevalence Rate of *Spirocerca lupi* (Nematoda: Spirurida) in Stray Dogs in Urmia, Iran. S. Naem, S. A. Sadati

Session XI Room: Salon F
Molecular Biology of Parasites
Moderators: S. Abner, L. Mansfield

- 3:30 65** Expressed Sequence Tags from *Haemonchus contortus* Intestine. D. P. Jasmer, J. Roth, P. J. Myler
- 3:45 66** Cathepsin B-Like Cysteine Proteases Can Account for Intestinal Cysteine

Protease Activity from *Haemonchus contortus*. S. Shompole*, D. P. Jasmer

- 4:00 67** Characterization of Serine-Threonine Kinase Genes in the Hookworm, *Ancylostoma caninum*. P. Arasu*, C. Ratz, J. Therrien
- 4:15 68** Molecular and Antigenic Analysis of Multiple *Sarcocystis neurona* Isolates Obtained from Horses with Equine Protozoal Myeloencephalitis from Different Geographic Regions. A. E. Marsh*, P. J. Johnson, D. Vardeleon, J. Ramos-Vara, G. C. Johnson.
- 4:30 69** Biological and Genetic Differences in *Neospora hughesi* and *Neospora caninum*. C. P. Walsh, R.B. Duncan, Jr, N. Sriranganathan, A. M. Zajac, M. C. Jenkins, D. S. Lindsay*
- 4:45 70** Molecular Characterization of an Avian Isolate of *Encephalitozoon hellem*. K. Snowden*, K. Logan, D. Phalen
- 5:00 71** Phylogenetic Analysis of *Blastocystis* spp. from Animal Hosts. J. HoEVERS*, K. Snowden.

Session XII Room: Salon F
PFIZER SELAMECTIN SERIES
Moderator: T. McTeir

- 5:30 72** Efficacy of Selamectin Against Experimentally Induced Heartworm (*Dirofilaria immitis*) Infections in Dogs and Cats. J. W. McCall*, T. L. Mctier, D. J. Shanks, P. Watson, C. Genchi, R. H. Six, C. A. Thomas, S. K. Dickin, G. Pengo, T. G. Rowan, A. D. Jernigan
- 5:45 73** Field Efficacy and Safety of Selamectin Against Heartworms in Dogs in the United States. M. G. Boy, R. H. Six, C. A. Thomas, J. A. Wren*, T. G. Rowan, A. D. Jernigan

Sunday, July 23, 2000 continued

- 6:00 74** Field Efficacy and Safety of Selamectin Against Fleas on Dogs and Cats in North America. M. G. Boy, R. H Six*, C. A. Thomas, T. G. Rowan, A. D. Jernigan
- 6:15 75** Evaluation of the Ovicidal and Larvacidal Effects of Selamectin Against Fleas (*Ctenocephalides felis*) on Dogs. T. L. Mctier*, M. H. Holbert, C. S. Wang, T. G. Rowan, A. D. Jernigan.
- 6:30 76** Field Efficacy and Safety of Selamectin Against *Otodectes cynotis* on Dogs and Cats in the United States and Europe. R. H. Six*, R. G. Clemence, C. A. Thomas, M. G. Boy, P. Watson, H. Benchaoui, P. J. M. Clements, T. G. Rowan, A. D. Jernigan
- 6:45 77** Field Efficacy and Safety of Selamectin Against *Sarcoptes scabiei* on Dogs in the United States and Europe. T. L. Mctier*, R. H. Six, R. G. Clemence, C. A. Thomas, S. Behan, M. G. Boy, P. Watson, H. Benchaoui, P. J. M. Clements, T. G. Rowan, A. D. Jernigan
- 7:00 78** Field Efficacy and Safety of Selamectin Against Gastrointestinal Nematodes in cats in the United States and Europe. R.H. Six, G. H. Sture, C. A. Thomas, R. G. Clemence, H. A. Benchaoui, M. G. Boy, P. Watson, D. G. Smith, J. A. Wren*, A. D. Jernigan, T. G. Rowan

7:30-9:30 Room: Salons A-E
PFIZER ANIMAL HEALTH RECEPTION

Monday, July 24, 1999

Session XIII Room: Salon E
Topic: Cattle Nematode Management
Moderators: C. Courtney, R. Ridley

- 8:00 79** Persistent Activity of Eprinomectin Pour-On for Cattle Against Trickle Infections of *Dictyocaulus viviparus*. J. E. Holste, D. Bowman, R. Sifferman, W. Langholff, D. Wallace, M. Romano, L. Cramer
- 8:30 80** Plasma and Milk Kinetics of Eprinomectin Following Topical Administration to Dairy Cows. M. Alvinerie
- 8:45 81** Comparison of Eprinomectin with Other Macrocyclic Lactones in Cattle. A. Paul, D. Hutchens*, K. Hart, A. E. Maciel, C. Robertson, S. J. Gross
- 9:00 82** Effect of Eprinomectin at Calving on Milk Production of Dairy Herds. G. Little, D. Beggs, I. Carmichael, R. Dyson, J. Malmo, N. Leighton, M. Pyman, M. Webster, R. Gogolewski, S. Gross, A. Maciel, W. Ryan*
- 9:15 83** Persistent Efficacy of Topical Doramectin and Eprinomectin Against *Ostertagia ostertagi* and *Cooperia oncophora* Infections in Cattle. J. Vercruyssen*, P. Dorny, D. Demeulenaere, K. Smets, E. Claerebout
- 9:30 84** Estimating the Effects of Gastrointestinal Nematodes in Calves on Summer Pastures. K. J. Mertz*, W. B. Epperson, M. B. Hildreth
- 9:45 85** Optimum Frequency for Deworming Growing Cattle on Pasture During

Winter in Florida. L. B. Davis, W. E. Kunkle, C. H. Courtney*

Monday, July 24, 2000 continued

9:45 86 Transmission Rate of Gastrointestinal Nematode Infections of Sheep and Cattle in The Netherlands. M. Eysker*, C. Vergouw, H.W. Ploeger

10:00-10:30 Break

Session XIV Room: Salon F

Topic: Ectoparasites

Moderators: B. Blagburn, M. Dryden

8:00 87 Efficacy *In Vitro* of Acaricides in the Cattle Tick *Boophilus microplus* from Mata and Agreste Regions of Pernambuco. State, Brazil. V. L. A. Santana, M. A. Gloria Faustino, L. C. Alves*; M. M. Lima

8:15 88 Purification and Characterization of Cz Est9, a Permethrin Hydrolyzing Esterase of the Cattle Fever Tick, *Boophilus microplus*. John H. Pruett*, Felix D. Guerrero

8:30 89 Efficacy of Pyriproxyfen in a Spot-On Application against Fleas on Cats. T. A. Miller*, B. L. Blagburn

8:45 90 Evaluation of the Catandog's Tag to Eliminate and Prevent Flea Infestations in Cats. P. A. Payne*, M. W. Dryden, V. Smith

9:00 91 Identification of Novel Target Proteins by EST Sequencing of Cat Flea Tissue-Specific cDNA Libraries P. J. Gaines, K. S. Brandt, S. J. Walmsley, C. M. Bozic, N. Wisniewski*

9:15 92 Elimination Speed, Efficacy and Anti-Fixing, Anti-Feeding Efficacy of 9% Amitraz Collars and Topical

Selamectin™ in Experimental *Dermacentor variabilis* Infestations in Dogs. O. Elfassy*, F. Goodman, L. Leeper-Carter

9:30 93 Killing Effect of 9% Amitraz Collars and Topical Selamectin Against Pre-Existing *Dermacentor Variabilis* Infestation in Dogs. O Elfassy*, F Goodman, L Leeper-Carter

9:45 94 Efficacy Of 9% Amitraz Tick Collars in Preventing the Transmission of *Borrelia burgdorferi* to Dogs by *Ixodes scapularis*. O.Elfassy, F.Goodman, S. Levy*, L. Leeper-Carter

10:00-10:30 Break

Session XV Room: Salon E

Topic: Livestock and Poultry Parasites

Moderators: R. O'Handley, S. Marley

10:30 95 Comparison of Deworming Protocols for Replacement Gilts G. H. Myers*, F. L. Cunningham

10:45 96 Arthropod Vectors of Poultry Tapeworms in Southern California Caged Laying Hens. N. C. Hinkle, L. T. Luong, E.G. Platzer*.

11:00 97 Survey of G.I. Parasitism in Eastern U.S. Bison Herds. G.H.Myers

11:15 98 An Investigation into Fatal Cryptosporidiosis in Beef Cattle. M. E. Olson , B. Ralston*, T. A. McAllister, M. Weststein, L. A. Heitman

11:30 99 Effect of Fenbendazole Treatment for Giardiasis in Calves on Intestinal Structure and Function. R.M. O'Handley*, M.E. Olson, A. Buret, T. A. McAllister, M. Jelinski

11:45 100 The Biology of *Giardia* And *Cryptosporidium* in a Beef Herd. B. Ralston*, T. A. Mcallister, M. E. Olson

Monday, July 24, 2000 continued

12:00 101 Dealing with the Anthropocentric Nature of Zoonotic Disease Terminology. D.D. Bowman*

12:15 102 Efficacy of Crystal Protein of *Bacillus thuringiensis* Against Adult of *Schistosoma japonicum* In Vitro. Y. Baoan*, Z. Yanqin, X. Xueshan, Z. Junlong, S. Ming, Y. Ziuiu.

12:30-1:30 LUNCH

Session XVI Room: Salon F

Topic: Anthelmintics

Moderators: T. Geary, W. Ryan

10:30 103 Adequate Infection for Anthelmintic Therapeutic Effectiveness Studies in Cattle, Swine, Horses, Cats and Dogs. T. Letonja*

10:45 104 Properties of Levamisole Receptors: Recent Advances. R. J. Martin*

11:00 105 Nematocidal Activity of a Novel Paraherquamide Analog, PNU-141962, in Ruminants. S. S. Johnson*, S. T. Chester Jr., M. F. Clothier, L.F. Krabill, B. H. Lee, D.G. Martin, S. J. Nelson, E. M. Thomas, J. F. Williams, N. Wuyts, R. M. Zaya

11:15 106 The Mechanism of Anthelmintic Action of Paraherquamides is Nicotinic Cholinergic Antagonism. T. G. Geary*, E. W. Zinser, M. L. Wolfe, E. M. Thomas, V.E. Groppis, J. Nelson, D. P. Thompson

11:30 107 Polymerization and Benzimidazole Binding Assays with Recombinant α - and β -Tubulins from *Haemonchus*

contortus. R. Prichard*, M. Oxberry, Y. Bounhas, S. Sharma, G. Lubega, T. Geary

11:45 108 Characterization of β -Tubulin Genes from Cyathostome Populations with Differing Sensitivities to Benzimidazole Anthelmintics. R. M. Kaplan*, M. R. Chapman, S. C. Tolliver, E. T. Lyons, T. R. Klei

12:00 109 Cloning a Glutamate-Gated Chloride Channel Gene Fragment from the Cattle Nematode, *Cooperia oncophora*. A. I. Njue*, R. K. Prichard.

12:15-1:30 LUNCH

12:15-1:30 Room: Salon G

GRADUATE STUDENT LUNCHEON/MIXER

1:30-2:00 Room: Salon H BUSINESS MEETING

2:00-3:15 Room: Salon H PRESIDENTIAL ADDRESS & AWARDS

3:15-3:30 Break

Session XVII Room: Salon E

Topic: Immunology and Pathology of Livestock Parasites

Moderators: L. Gasbarre, A. Marsh

3:30 110 *Ostertagia ostertagi* Fourth Stage Larvae Produce an Immunomodulative Factor. T. De Marez*, L. Gasbarre

3:45 111 Identification of Larval Antigens of *Ostertagia ostertagi* Shed in Feces of Experimentally Infected Calves. T. Qureshi, C. Santrich

4:00 112 Low Primary *Dictyocaulus viviparus* Infections Result in Immunity Against Challenge Infection in Calves. M.

Eysker*, F. N.J. Kooyman, H. W. Ploeger

Monday, July 24, 2000 continued

- 4:15 113** Application of Non-Attenuated and Gamma-Irradiated Eimerian Oocysts to Control Avian Coccidiosis. M. Jenkins*, S. Botero, P. Allen, H. Danforth.
- 4:30 114** Effect of IL-2 DNA Immunization on Cell-Mediated Immunity and Disease Resistance to Coccidiosis in Chickens. H. S. Lillehoj* W. Min
- 4:45 115** *Trichuris suis* Excretory-Secretory Products Inhibit the Growth of *Campylobacter jejuni*. S.R. Abner, D.E. Hill, J.F. Urban, L. S. Mansfield*.
- 5:00 116** Infection of pigs with *Ascaris suum* Reduces Uptake of Opsonized-*Staphylococcus aureus* by Pulmonary Alveolar Macrophages. J.F. Urban, Jr*, M. Morimoto, K. Ishiwata, M. Morimoto, L. Schopf, M. Wills-Karp
- 5:15 117** Muscle Catabolism During Poultry Coccidiosis. R.H. Fetterer*, P.C. Allen, P.C. Augustine

Session XVIII Room: Salon F
Topic: Epidemiology of Parasitic Infections
Moderators: L. Rickard, S. Little

- 3:45 118** Implementation of National Parasite Occurrence Tracking Using a Computerised Database. L. Polley*, C. Gaschler, A. Gadjadhar
- 4:00 119** Prevalence of Antibodies to *Neospora caninum* in White-Tailed Deer from the Southeastern US. S. E. Little*, D. S. Lindsay, W. R. Davidson

- 4:15 120** Canine Crenosomosis in Atlantic Canada. G. A. Conboy
- 4:30 121** American Women Pioneers in Veterinary Parasitology. R. A. Roncalli
- 4:45 122** Prevalence of *Cryptosporidium* and *Giardia* Spp. in Northern Alaskan Mammals. L.G. Rickard*, C. Siefker, J.S. Simmons, G.T. Pharr, T.M. O'Hara.
- 5:00 123** The Prevalence of *Giardia* and *Cryptosporidium* in Human, Agriculture, and Wildlife Sources Directly Affecting the North Saskatchewan River Basin in Central Alberta, Canada. T. L. Heitman, L. M. Frederick, J. R. Viste, N. J. Guselle, S. E. Cooke, L. D. Roy, U. M. Morgan, R. C. A. Thompson, and M. E. Olson
- 5:15 124** Prevalence of Environmentally Important Parasites and Bacteria in Alberta Hogs. N. J. Guselle*, M. E. Olson.
- 5:30 125** Carrion Dipteran Flies in Riyadh, Saudi Arabia. M. N. Abo-Shehada

Session XIX Room: Salon F
NOVARTIS SERIES
Moderator: J. Login

- 6:00 126** A Brief Introduction to Nitenpyram. R Schenker,, O Tinembart,, S. H. Barnett, S. T. Witte*. Yerly
- 6:15 127** Efficacy of Nitenpyram Against Fleas on Dogs and Cats in a Clinical Field Study. R. Schenker, L. G. Luempert, S. H. Barnett
- 6:30 128** Simulated Home Trials to Compare Nitenpyram Flavored Tablets in Combination with Program®(lufenuron) to Program Alone for the Control of *C. felis* on Cats and Dogs. R. Schenker, S. Barnett*

Monday, July 24, 2000 continued

- 6:45 129** Safety of Nitenpyram in Dogs. S. T. Witte*, L. G. Luempert, III, E. I. Goldenthal, J. L. Schardein, B. E. Johnson
- 7:00 130** Safety of Nitenpyram in Cats. S. T. Witte*, L. G. Luempert, III, B. E. Johnson, I. M. Grossi, E. I. Goldenthal
- 7:15 131** Efficacy of Nitenpyram Against a Flea Strain with Resistance To Fipronil. R. Schenker, E. Humbert-Droz, E.W. Moyses¹, B. Yerly

**7:30-9:30 Room: Salons F-J
NOVARTIS ANIMAL HEALTH
RECEPTION**

Tuesday, July 25, 2000

**AAVP/AVMA PRESIDENT'S SYMPOSIUM
Convention Center - Room 250 A/B**

Topic: Impact of gastrointestinal Parasitism on Ruminant Production

Moderator: Robert S. Rew

- 8:30 132** The Influence of Dietary Supplementation on the Resistance and Resilience of Ruminants to Gastrointestinal Parasitism. R L Coop
- 9:15 133** Effect of *Ostertagia ostertagi* Infection on Appetite in Cattle. M. T. Fox
- 10:00-10:30 Break**
- 10:30 134** Potential Impacts of Anti-nematode Immune Responses on Animal Productivity. .L. C. Gasbarre
- 11:15 135** Impact of Parasite Control in Cattle in Field Trials in North America. R. S. Rew

