

PROGRAM

42 Annual Meeting
American Association of Veterinary Parasitologists
Reno, Nevada

Saturday, July 19, 1997 Peppermill Hotel & Casino

12:00-3:00 AAVP Board Meeting
Maple

1:00-8:00 Speaker Prep
Silver

2:00 Registration - Ballroom Lobby

3:00 Opening Remarks
Aspen B

President Peter Schantz
Vice President & Program Chairman
Louis Gasbarre

Session 1: Swine, Endo & Ectoparasites **Aspen B** **Moderators: D.P. Jasmer,** **T.L. Skogerboe**

3:30 (1) Vertical Transmission of *Toxoplasma gondii* in rats
J.P. Dubey

3:45 (2) Swine Immune Responses to *Toxoplasma gondii* Infections and to Vaccination with Irradiated Oocysts
J.K. Lunney, S. Hyatt, J.P. Dubey

4:00 (3) Reversal of *Trichinella spiralis* Infected Cell Characteristics is Associated with Nuclear Antigen Depletion
C. Yao, S. Bohnet, D.P. Jasmer

4:15 (4) Production and Use of Proficiency Samples as part of a Quality Control System for *Trichinella* Digestion Diagnostic Program
L.B. Forbes, R.A. Rajic,
A.A. Gajadhar

4:30 (5) Field Evaluation of ELISA and Risk Factor Analysis for Trichinellosis on New England Swine Farms
H.R. Gamble, W.G. Smith,
R.C. Brady, L.E. Miller

4:45 (6) Development of a Swine Animal Model Where Opportunistic Invasion of the Colon by *Campylobacter jejuni* Occurs Spontaneously
L.S. Mansfield, D.T. Gauthier,
S.R. Abner, K.M. Jones,
J.F. Urban

5:00 Refreshments

5:15 (7) Anthelmintic Use on Saskatchewan Pig Farms: Results from a Postal Survey
B. Wagner, L. Polley

5:30 (8) A Survey of Sarcoptic Mange in Slaughter Pigs at Seven Midwest Packing Plants
J.J. Melancon

5:45 (9) Study One: Duration of Efficacy of Doramectin and Ivermectin Against *Sarcoptes scabiei* Var. *Suis*
J.J. Arends, T.L. Skogerboe,
L.K. Ritzhaupt

6:00 (10) Study Two: Duration of Efficacy of Doramectin and Ivermectin Against *Sarcoptes scabiei* Var. *suis*
J.J. Arends, T.L. Skogerboe,
L.K. Ritzhaupt

Session 2: Companion Animal, **Ectoparasites** **Gold** **Moderators: B.L. Blagburn,** **M.W. Dryden**

3:30 (11) Comparative Evaluation of Flea Counting Techniques on Dogs and Cats
V.M. Goffaux, P.J. Boyd

3:45 (12) A Retrospective Evaluation of the Effects of Lufenuron (Program) on Flea Allergy Dermatitis (FAD) in Dogs and Cats
M. Groh, R. Sifferman

4:00 (13) Efficacy of Combined Formulation of Milbemycin Oxime and Lufenuron in Controlling Flea Infestations
G. Pengo, P. Sica, R. Steiger, D. Stansfield

4:15 (14) Control of Flea Populations on Naturally Infested Pets and in Private Residences with Either Topical Imidacloprid Spot Application or the Combination of Oral Lufenuron and Pyrethrin Spray
M.W. Dryden, H.R. Perez, D.M. Ulitchny

4:30 (15) Titration of Pyriproxyfen in Virbac KnockOut IGR Shampoos
T.A. Miller, L.R. Cruthers

4:45 (16) Persistent Ovisterilant Efficacy of Virbac KnockOut IGR Collars
T.A. Miller, B.L. Blagburn

5:00 REFRESHMENTS

5:15 (17) An Investigative Study to Evaluate the Effect of Water Immersion or Shampooing on the Efficacy of Frontline Top Spot
P.A. Tanner, M.N. Romano

5:30 (18) Residual Efficacy of Frontline Top Spot for the Control of Fleas in the Cat
P. Tanner, J.S. Hunter III, N. Meo, M. Keister

5:45 (19) Comparative Studies to Evaluate the Flea Control Efficacy of Frontline Top Spot Against Advantage Flea Adulticide in the Dog and Cat
P.A. Tanner, M.N. Romano

6:00 (20) Peritoneal Cestodiasis in Dogs
W. Boyce, C. Kerner, G. Lee, S. Nadler, E. Platzer

Saturday Evening, July 19, 1997

6:15 Symposium: Problems and Solutions for

Nematode Control in Grazing Cattle Aspen B

Moderator: G. Conder

(21) Factors Influencing the Control of *Ostertagia ostertagi* Infections of Cattle
L.C. Gasbarre

(22) The Impact of the Environment on Strategic Parasite Control Programs in Cattle
B.E. Stromberg

(23) Strategic Control of Nematode Parasites of Grazing Cattle
R.S. Rew

7:00-8:30 Social - sponsored by Pfizer Animal Health, **Poolside**

Graduate Student Mixer, **Lakeview**

Sunday Morning, July 20, 1997

Session 3: Cattle, Ectoparasites Pinion, Redwood, Sequoia Moderators: S.E. Marley, W.G. Ryan

8:00 (24) Initial and Residual Efficacy of a Pour-on Formulation of Fipronil Applied to Cattle infested with *Boophilus microplus* (Canestrini)
J.S. Hunter, D.M. Keister, P. Jeannin, R.B. Davey, J.E. George

8:15 (25) Efficacy of Doramectin Pour-on Against *Damalinea bovis* on Cattle
L. Smith, W. Lodi, K. Rooney, S. Marley, G. Conder

8:30 (26) Efficacy of Doramectin Pour-on Against Lice, Mites, and Grubs of Cattle
K. Rooney, E. Illyes, D. Keller, T. Meinert, N. Logan, G. Conder, S. Sunderland, P. Sarasola

8:45 (27) Eprinomectin: A Novel Avermectin for Control of Lice in Cattle
J.E. Holste, L.L. Smith, J.A. Hair,
J.L. Lancaster, J.E. Lloyd,
W.K. Langhoff, R.A. Barrick,
J.S. Eagleson

9:00 (28) Efficacy of Topically Applied Eprinomectin Against *Chorioptes bovis* Mites
L.L. Smith, K.E. Sterner,
D. Bowman, J.A. Hair, D. Barth,
B.N. Kunkle, J.E. Holste

9:15 (29) The History of Myiasis in the Americas
R.A. Roncalli

9:30 REFRESHMENTS

Session 4: Wildlife Parasites

Aspen A&B

**Moderators: A.Gajadar,
K.R. Kazacos**

8:00 (30) Molecular Phylogenetic Relationships Among *Sarcocystis* Species of Wild and Domestic Animals

C.K. Fenger, D.E. Granstrom,
J.L. Langemeier, A. Gajadhar,
J.P. Dubey

8:15 (31) Isolation, Culture, Western Blot Analysis and SSURNA Sequence Analysis of a *Sarcocystis* Neuron-like Protozoan from a Wildcaught Opossum from Michigan
A.J. Murphy, P.M. Gearhart,
L.S. Manfield

8:30 (32) Recovery from Blindness Caused by Toxoplasmosis in Bennett's Wallabies (*Macropus rufogriseus*)
C.A. Crutchley, J.P. Dubey,
D.S. Adams

8:45 (33) Studies on the Large Ribosomal Subunit to Develop a Diagnostic Test for the Identification of *Elaphostrongylus cervi*
G.M. Falk, A.A. Gajadhar

9:00 (34) Population Dynamics of Gastrointestinal Nematodes in the White-tailed Deer (*Odocoileus virginianus*)
A. Derosa

9:15 (35) Natural Co-Infection of a White-tailed Deer Population with *Ehrlichia chaffeensis*, the Human Granulocytic Ehrlichiosis Agent, and an *Ehrlichia*-like Organism
S.E. Little, D.E. Stallknecht,
J.M. Lockhart, J.E. Dawson,
W.R. Davidson

Session 5: Modern Concepts in Nematode Biology and Control **Pinion, Redwood, Sequoia** **Moderators: R.H. Fetterer, T.G. Geary**

10:00 (36) Nematode Amphidial Neurons: Comparative Ultrastructure, Putative Function and Evidence from Ablation
F.T. Ashton, G.A. Schad

10:40 (37) A Conserved Signalling Pathway Controls *Caenorhabditis elegans* Dauer Larva Development
D.L. Riddle

11:20 (38) Pharmacology of Anthelmintic Resistance: From Molecules to the Field
N. Sangster

12:00 LUNCH

Sunday Afternoon, July 20, 1997 **Pinion, Redwood, Sequoia**

1:00 Presidential Address - Peter Schantz

1:20 Awards - Chairman Dan Synder

**Session 6: Cattle & Avian Endoparasites
Pinion, Redwood, Sequoia
Moderators: H.D. Chapman,
J.P. Dubey**

- 2:00** (39) Neosporosis: New Isolate Characterizations and Insights on Pathogenesis in Cattle
P.A. Conrad, M.L. Anderson, J. Rowe, A.E. Marsh, M. Ho, K. Louie, K.W. Sverlow, A. Packham, B.C. Barr
- 2:15** (40) Determination of the Role of BVD Virus in *Neospora caninum*-Infected Cattle
R.D. Pinckney, W.W. Zhang, R.D. Schultz, H.W. Momont, D. Sockett, P.S. Schmidt
- 2:30** (41) Oral Inoculation of Cats with *Neospora caninum*
M.M. McAllister, D.S. Lindsay, R.A. Wills, A.M. McGuire, J.D. Tranas
- 2:45** (42) Vaccination with *Neospora caninum* Causes Decreased Mortality But Not Tissue Cyst Production in Mice Orally Challenged with *Toxoplasma gondii* Oocysts
D.S. Lindsay, S.D. Lenz, C.C. Dykstra, B.L. Blagburn, J.P. Dubey
- 3:00** (43) Diagnostic Strategies for *Trichostrongylus axei* in Bulls
S. Parker, J. Campbell, H. Cook, A. Gajadhar
- 3:15** (44) Transport and Culture Conditions Potentially Affecting the Sensitivity of the Diagnostic Test for *Trichostrongylus axei*
L. Bryan, J. Allen, J. Campbell, A. Gajadhar
- 3:30** (45) Development of Immunity to *Eimeria* Species in Broilers Reared on New or Used Litter and Given Anticoccidial Drugs in the Feed
H.D. Chapman
- 3:45** (54) Studies of Reproduction Biology of *Oesophagostomum* Species in Pigs

- 3:45** (46) Role of Interferon-Gamma and Nitric Oxide in Avian Coccidiosis
H.S. Lillehoj, P. Allen

4:00 REFRESHMENTS

**Session 7: Swine, Endoparasites
Aspen A&B
Moderators: C.M. Christensen,
D.E. Hill**

- 2:00** (47) Pharmacokinetics of Doramectin and Ivermectin in Swine
C. Friis, H. Bjoern
- 2:15** (48) Duration of Activity of Doramectin and Ivermectin Against *Ascaris suum* in Experimentally Infected Pigs
C.A. Lichtensteiger, J. A. DiPietro, A.J. Paul, E. Neumann, L. Thompson
- 2:30** (49) Effect of *Metastrongylus* spp. Infection on Performance of Growing Pigs
M.A. Baudena, E. Kabagambe, Y. Li, T. Pena, R. Rutledge, G. Baptista
- 2:45** (50) Transmission Dynamics of *Oesophagostomum dentatum* and *Hyostrongylus rubidus* in Outdoor Pigs
A. Roepstorff, K.D. Murrell
- 3:00** (51) Transmission Dynamics of *Ascaris suum* and *Trichuris suis* in Outdoor Pigs
A. Roepstorff, K.D. Murrell
- 3:15** (52) Effect of Protease Inhibitors on *in vitro* Development of the Third- to Fourth-Stage of *Ascaris suum*
M.L. Rhoads, R.H. Fetterer
- 3:30** (53) Effect of Disulfiram on Eggshell Morphology of *Trichuris muris*
D.E. Hill, R.H. Fetterer
- Using a Novel Transplantation Technique

C.M. Christensen

4:00 REFRESHMENTS

Session 8: Cattle, Endo Parasites
Pinion, Redwood, Sequoia
Moderators: S. Almeria,
J.A. Stuedemann

4:30 (55) Paraban, a Window-based Model for Parasite-Control in Cow-calf and Stocker Operations
G. Smith, J. Jacobsen, M. Soll, J. Guerrero

4:45 (56) Control of Gastrointestinal Nematodes in the Pyrenees (Spain) Based on Epidemiological Data, Confirmation with a Mathematical Model
S. Almeria, J. Guerrero, J. Uriarte

5:00 (57) Gastrointestinal Nematode Infections in Dairy Calves Following One, Two or Three Moves to Clean Pasture
M. Eysker, J.H. Boersema, J.B. Githiori, F.N.J. Kooyman

5:15 (58) Cattle Management to Reduce Nematode Contamination Potential of Parasite-Free Bermudagrass Pastures
J.A. Stuedemann, H. Ciordia, T.B. Stewart, D.H. Seman, S.R. Wilkinson, A.J. Franzluebbbers, A.L. Dillard, A.D. Lovell

5:30 (59) Lungworm Outbreak in Lactating Dairy Cows
D.H. Bliss, G.H. Myers

5:45 (60) Evaluation of Anthelmintic Treatments in Cattle Grazing Great Basin Rangeland in Nevada and California
W.G. Kvasnicka, D.H. Bliss, R. Torell

5:45 (67) Canine Filariasis Due to *Dirofilaria immitis* in California: The Effects of Management, Geographical Location of

6:00 (61) Productivity of Stocker Cattle Treated with the Ivomec SR Bolus vs. Benzimidazole Anthelmintics and Topical Fenthion from Grazing to Slaughter
L. Ballweber, D. Bechtol, J.R. Brown, J.A. Hawkins, R. Alva, R. Plue

Session 9: Companion Animal, Endo Parasites
Aspen A&B
Moderators: C.H. Courtney,
J.W. McCall

4:30 (62) Canine Heartworm Prophylaxis by High Oral Dosages or Transdermal Administration of Diethylcarbazine
J.W. McCall, S.L. Stroh, A.A. Marchiondo, T.L. McTier

4:45 (63) Correlation of Mosquito Species Population Distribution and the Seasonal Transmission of *Dirofilaria immitis*
R.A. Holmes, G. Faget, M. Yates

5:00 (64) Development of a Molecular Probe Based on the Small Subunit Ribosomal RNA for the Detection of *Dirofilaria immitis*
K.J. Watts, C. Sulsona, E.C. Griener, R.R. Ganta, C.H. Courtney

5:15 (65) Canine Filariasis in California: *Dipetalonema reconditum*, Distribution and Prevalence as an Indication of Vector Abundance and Survival
J.H. Theis, F. Stevens

5:30 (66) Canine Filariasis Due to *Dipetalonema reconditum* in California: The Effects of Management, Geographical Location of the Dog's Domicile, Age, Gender and Plant Climate Zones on the Risk of Infection
J.H. Theis, F. Stevens

the Dog's Domicile, Age, Gender and Plant Climate Zones on the Risk of Infection
J.H. Theis, F. Stevens

6:00 (68) Canine Filariasis Due to Dirofilaria in California: The Effects of Rain and Snowfall on the Western Facing Slopes of the Sierra Nevada Mountains on Prevalence and Distribution Within the Plant Climate Zones of Northern California
J.H. Theis, F. Stevens, P.H. Kass

6:15 Symposium: The Quest for a New Generation of Worm Control Manzanita A&B
Sponsored by Fort Dodge Animal Health to be immediately followed by a social sponsored by Fort Dodge Animal Health

Monday Morning, July 21, 1997

Session 10: Cattle - Endoparasites
Redwood, Sequoia
Moderators: T.A. Yazwinski
G.L. Zimmerman

8:00 (69) Evaluation of Coat Length, Rainfall, and Exposure to Prevailing Weather Conditions on the Efficacy of Topically Applied Eprinomectin
J.S. Eagleson, R.P. Gogolewski, S.R. Pitt, D.R. Thompson, J.A. Hair

8:15 (70) The Efficacy of an Eprinomectin Pour on Product Against *Cooperia* spp and *Nematodirus helvetianus*
J.S. Eagleson, D. Farrington, L.G. Cramer

8:30 (71) Efficacy of Eprinomectin Pour-on Against Nematode Parasites of Cattle with Emphasis on Inhibited Early Fourth-Stage Larvae (IEL₄) of *Ostertagia* spp
J.C. Williams, J.A. Stuedemann, K. Bairden, D. Kerboeuf, H. Ciordia, J. Hubert, S.D. Broussard

8:45 (72) Persistent Efficacy of Doramectin Pour-on Against Artificially-Induced Infections of Nematodes in Cattle
G. Zimmerman, E. Johnson, R. Prichard, M. Molento, C. Trudeau, S. Marley, G. Conder

9:00 (73) Persistent Efficacy of Doramectin Injectable Solution Against

Artificially-Induced Infections of Nematodes in Cattle
B. Stromberg, B. Woodward, C. Courtney, E. Johnson, G. Zimmerman, S. Marley, G. Conder

9:15 (74) Comparison of Efficacy of Doramectin Injectable with Ivermectin/Clorsulon Injectable in Cattle Naturally Infected with Gastrointestinal Nematode and Trematode Infections
J.C. Williams, A.F. Loyacano, A. Derosa, J. Gurie, T.L. Skogerboe

9:30 (75) Characterization of Turkey Ascariasis and the Efficacy of Fenbendazole Medicated Feed in the Treatment of Nematode Parasitisms of the Turkey
T.A. Yazwinski, C.A. Tucker

9:45 REFRESHMENTS

Session 11: Ruminant-Endoparasites
Pinion
Moderators: T.M. Craig,
A.M. Zajac

8:00 (76) Field Efficacy of Doramectin Pour-on Against Naturally-Acquired Nematode Infections of Cattle
G. Conder, K. Rooney, E. Illyes, D. Keller, T. Meinert, N. Logan

8:15 (77) Therapeutic Efficacy of Doramectin Pour-on Against Eyeworms, Lungworms, and Gastrointestinal Nematodes
S. Marley, E. Illyes, D. Keller, T. Meinert, N. Logan, G. Conder

8:30 (78) Verification of R DrenchRite (For Use in North America) by Comparison with FERT (Fecal Egg Reduction Tests)
K.E. Young, T.M. Craig,
M.R. Slater, N.R. Hooper

8:45 (79) Multiple Anthelmintic Resistance in a Virginia Goat Herd
A.M. Zajac, T.A. Gipson, J.C. Lovin

9:00 (80) The Use of Tracer Lambs to Evaluate the Transmission and Survival of Gastrointestinal Parasites of Exotic Ruminants
T.M. Craig, J. Jensen, R. Lenz

9:15 (81) Composition of Parasite Burden in Bison Grazing the Konza Prairie
R.K. Ridley, D. Post, M. O'Donnell,
A. Benorden, M. Walburger,
P. Payne

9:30 (82) Dynamics of *Fossaria cubensis* Populations in Florida: Relationship to the Epidemiology and Control of Bovine Fascioliasis
R.M. Kaplan, C.H. Courtney,
F.G. Thompson, P.O. Miller

9:45 REFRESHMENTS

Session 12: Cattle-Endoparasites

Redwood, Sequoia

**Moderators: B.E. Stromberg,
D.S. Zarlenga**

10:00 (83) Pathophysiology of Hypersensitivity Reactions Associated with Giardiasis
M.E. Olson, J.A. Hardin,
A.G. Buret, M.H. Kimm, D.G. Gall

10:15 (84) Pathophysiology of Giardiasis in Dairy Calves
R.M. O'Handley, M.E. Olson,
T.A. McAllister, M.Jelinski

10:30 (85) Longitudinal Study of *Giardia* and *Cryptosporidium* in Dairy Calves
R.M. O'Handley, M.E. Olson,
T.A. McAllister, M.Jelinski

10:45 (86) *Giardia* and *Cryptosporidium* in British Columbia Dairy Calves
N.J. Guselle, M.E. Olson,
R.M. O'Handley, M. Swift,
T.A. McAllister, M.D. Jelinski,
D.W. Morck

11:00 (87) *Giardia* and *Cryptosporidium* in Feedlot Cattle
B. Ralston-Chalmers, M.E. Olson,
N. J. Guselle, T.A. McAllister

11:15 (88) Immune Response in Lambs Experimentally Infected with *Giardia*
M.E. Olson, S. Yanke, H. Ceri,
D.W. Morck, T.A. McAllister

11:30 (89) Local Ileal Immune Responses in Cattle During a Primary Infection with *Cryptosporidium parvum*
A. Canals, P. Pasquali,
D.S. Zarlenga, S. Almeria,
R. Fayer, L.C. Gasbarre

11:45 (90) Cloning and Expression of Bovine Interleukin-15: Analysis and Modulation of Transcription in Parasite Infected Animals
A. Canals, L.C. Gasbarre,
R. Fayer, P. Pasquali, P.C. Boyd,
S. Almeria, D.S. Zarlenga

12:00 LUNCH

Session 13: Companion Animal-Ectoparasites

Pinion

**Moderators: P.J. Scholl,
T.B. Stewart**

10:00 (91) Integrated Tick Control: New Concept for Breaking the Life Cycle (1)
A. Estrada-Pena, F. Ascher

10:15 (92) Integrated Tick Control: New Concept for Breaking the Life Cycle (2)
A. Estrada-Pena, F. Ascher

10:30 (93) Efficacy of Two Ixodicide Collars Against Natural Infestation with the Brown Dog Tick
A. Estrada-Pena, F. Ascher

10:45 (94) Antifixing + Antifeeding Effect of Two Ixodicide Collars Against the Brown Dog Tick
A. Estrada-Pena, F. Ascher

11:00 (95) Killing Effect of Two Ixodicide Collars Against the Brown Dog Tick
A. Estrada-Pena, F. Ascher

11:15 (96) Efficacy of a 1% (S)-Methoprene - 8% Chlorpyrifos Combination Dog Collar Against the Cat Flea and Brown Dog Tick
J.B. Prullage, R.R. Rudolph, S.R. Hansen

11:30 (97) Residual Efficacy of Frontline^R Top SpotTM for the Control of Fleas and Ticks in the Dog
J.S. Hunter III, P. Tanner, M. Keister, Ph. Jeannin

11:45 (98) A New Species of Demodicid Mite from a Cat
T.B. Stewart, C.E. Desch, Jr.

12:00 LUNCH

Monday Afternoon, July 21, 1997

1:00 Business Meeting
Pinion, Redwood, Sequoia

Session 14: Cattle-Endoparasites
Pinion, Redwood, Sequoia
Moderators: J.E. Miller,
J.C. Williams

2:00 (99) Use of Geometric Means in Parasite Data
G.F. Ericsson, R.A. Barrick, C.P. Daurio, W.K. Langholff

2:15 (100) Prevalence of Parasite Contamination on Great Basin Pastures and Ranges from

Cow/Calf Herds as Determined by Fecal Worm Egg Counts
W.G. Kvasnicka, D.H. Bliss, R. Torell

2:30 (101) Epidemiology of GI Nematodes in Cow-Calf Herds and Breed Susceptibility
M. Pena, J.E. Miller, W. Wyatt, S.R. Barras, Y. Li, E. Kabagambe

2:45 (102) Role of Inhibited Early Fourth-Stage Larvae (IEL₄) in the Immune Response to *Ostertagia ostertagi* (OST)
J.C. Williams, L.C. Gasbarre, T.R. Klei, A. Derosa, M. Chapman

3:00 (103) Comparison of Natural and Experimental Gastrointestinal (GI) Nematode and Lungworm Infections in Cattle
J.C. Williams, A. Derosa

3:15 (104) Mucosal Immunity of Cattle Infected with the Gastric Nematode *Ostertagia ostertagi*: Phenotypic Characterization and Cytokine Analysis
S. Almeria, A. Canals, D.S. Zarlenga, L.C. Gasbarre

3:30 (105) Comparison of GI Nematode Infection and Body Weight Among Native, Suffolk and Crossbred F1 Lambs
Y. Li, J.E. Miller, D.E. Franke, S.R. Barras, E.K. Kabagambe, M.T. Pena

3:45 REFRESHMENTS

Session 15: Companion Animal-Endoparasites
Oak
Moderators: A.R. Donoghue,
R.K. Ridley

2:00 (106) Strategic Use of Ivermectin During Pregnancy to Control *Toxocara canis* in Greyhound Puppies
P.A. Payne, R.K. Ridley

2:15 (107) A Case of Pseudoparasitism Due to Mermithid Nematodes in a Cat
K.R. Kazacos, J.A. Epler

2:30 (108) Inflammatory Lung Disease from *Dirofilaria immitis* Infections in Cats and Dogs
A.R. Dillon, A. Warner, J. Hudson, R. Molina

2:45 (109) Regional, Clinical Case Studies of Feline Heartworm Infection
C.K. Robertson, A.R. Dillon, W.R. Brawner, J. Guerrero

3:00 (110) Feline Heartworm Infection: Clinical Study in Northern Italy
C. Genchi, L. Venco, G. Prieto

3:15 (111) Comparison of Antibody and Antigen Detection Tests on Sera from Cats Experimentally Infected with *Dirofilaria immitis*
J.W. McCall, N. Supakorndej, A.R. Donoghue, C.A. Piché

3:30 (112) Canine Hepatozoonosis Newly Endemic to Oklahoma
R.J. Panciera, J.S. Mathew, M.A. Breshears, S.A. Ewing

3:45 REFRESHMENTS

Session 16: Sheep-Endoparasites
Pinion, Redwood, Sequoia
Moderators: H. Schallig, J.F. Urban

4:00 (113) Evidence for Reversible Inhibition of Abomasal Acid Secretion in Sheep Infected with *Ostertagia leptospicularis*
H. Hertzberg, L. Kohler, J. Eckert

4:15 (114) Gut Secretory Antigens of *Haemonchus contortus*: Gene Isolation and Comparison Among Diverse Nematode Species
A. Rehman, D.P. Jasmer

4:30 (115) Production of a Monoclonal Antibody Specific for Ovine Immunoglobulin E and Its Application to Monitor Serum IGE Responses to *Haemonchus contortus* Infection
F.N.J. Kooyman, H.D.F.H. Schallig, J.F. Huntley, A.W.C.A. Cornelissen

4:45 (116) Immunoprotective Properties and Molecular Characterization of Two Excretory Secretory (ES) Proteins of *Haemonchus contortus*
H.D.F.H. Schallig, M.A.W. van Leeuwen, A.W.C.A. Cornelissen

5:00 (117) Field Evaluation of H11-H-gal-GP Vaccine Against *Haemonchus contortus* in Suffolk and Gulf Coast Native Sheep
E. Kabagambe, J. Miller, D. Smith, S. Barras, Y. Li, M. Peña

5:15 (118) Serum Antibody Response of Four Sheep Breeds to *Haemonchus contortus* Infection: Antigen

Markers

M.T. Gómez-Muñoz, M. Cuquerella, L.A. Gómez-Iglesias, C. de la Fuente, J.M. Alunda

5:30 (119) Characterization of Hemolytic Activity from Adult *Haemonchus contortus*
R.H. Fetterer, M.L. Rhoads

5:45 (120) Toxic Activity of Crystals from *Bacillus thuringiensis* (Strain YBT-1953) to Adults of *Haemonchus contortus* In Vitro
Y. Baoan, W. Xiang, Z. Junlong, M. Lihua, Y. Zinlu

Session 17: Equine-Endoparasites
Oak
Moderator: D.D. French, D.E. Granstrom

4:00 (121) *In Vitro* Cultivation and Experimental Inoculation of *Sarcocystis falcatula* and *S. neurona* Merozoites into Budgerigars
A. Marsh, B.C. Barr, L.A. Tell, E. Greiner, J. Dame, P.A. Conrad

4:15 (122) Experimental Reproduction of *Sarcocystis neurona* Induced Encephalitis in Nude Mice
A.E. Marsh, B.C. Barr, J.E. Madigan, R. Nordhausen, P.A. Conrad

4:30 (123) Experimental Induction of Equine

Protozoal Myeloencephalitis in Horses Using *Sarcocystis* sp. Sporocysts from the Opossum (*Didelphis virginiana*)
D.E. Granstrom, C.K. Fenger, A.A. Gajadhar, N.M. Williams, S.A. McCrillis, S. Stamper, J.L. Langemeier, J.P. Dubey

4:45 (124) Anthelmintic Resistance on Pleasure Horse Farms in North Central Florida

T.F. Woods, T.J. Lane, Q.-Y. Zeng, C.H. Courtney

5:00 (125) Dose Confirmation Trial of Moxidectin Equine Oral Gel Against *Gasterophilus* sp. in Equines
O. Slocombe, M.C. Lake, P.J. Scholl

5:15 (126) Comparison of the Recovery of Cyathostome Larvae from Fresh and Frozen Equine Mucosa
R. Gamboa, J.A. DiPietro, A.J. Paul

5:30 (127) Remanent Effect of a 2% Equine Moxidectin Gel on Establishment of Small Strongyles
J. Vercruysse, M. Eysker, D. Demeulenaere, K. Smets, P. Dorny

5:45 (128) Comparison of Diagnostic Techniques for Detection of *Cryptosporidium parvum* in Horses
D. Cole, N. Cohen, K. Snowden, C. Chappell

6:00 Symposium - Technical Update on Advantage^R sponsored by Bayer Corporation Manzanita A&B

6:45 Social sponsored by Bayer Corporation Manzanita A&B

11:45 (137) Immunity to GI Nematodes:

Tuesday Morning, July 22, 1997

Special Symposium - Advances in Cestode Research - Pinion, Redwood, Sequoia

8:00 INTRODUCTION

8:05 (129) The Species Question in *Echinococcus* and *Taenia*: Taxonomic Controversies
E.P. Hoberg, D. Zarlenga

8:25 (130) *Echinococcus multilocularis* and Alveolar Echinococcosis in Europe
J. Eckert

8:55 (131) *Echinococcus multilocularis* in North America
K.R. Kazacos, S.T. Storandt

9:10 (132) Cystic Echinococcosis in Africa and the Middle East: A Cooperative Project
F.L. Anderson, M. Kachani

9:30 (133) Development and Application of Coproantigen Assays for Intestinal Taeniid Infections
J.C. Allan

10:00 REFRESHMENTS

AAVP/AAVI Joint Symposium - Immune Response Against Parasites at Mucosal Surfaces Pinion, Redwood, Sequoia Moderator: L.C. Gasbarre

10:15 (134) The Mucosal Immune System: Novel Solutions in a Complex Microenvironment
A.D. Befus

10:45 (135) Immunity to Trichomonad Infection of the Bovine Reproductive Tract
L.B. Corbeil, R.H. BonDurant

11:15 (136) Immune Responses in Intestinal Mucosa to *Cryptosporidium parvum*
C.R. Wyatt

Searching for Novel Cytokine-

Induced Effector Mechanisms
J.F. Urban, Jr.

12:15 LUNCH

Tuesday Afternoon

**AAVP/AVMA Joint Symposium- Advances
and Controversies in Veterinary
Parasitology
Convention Center Rm. B-10
Moderator: P.M. Schantz**

1:30 INTRODUCTION

**1:40 (138) Understanding Persistent and
Recurrent Flea Problems and the
Importance of Parasites of Urban
Life
M.W. Dryden**

**2:20 (139) Dangerous Liaisons: Zoonotic
Helminths Acquired from Pets and
Urban Wildlife
K.R. Kazacos**

3:00 REFRESHMENTS

**3:30 (140) Heartworms: Is the Transmission
Season Really that Short?
J.B. Lok**

**4:00 (141) Public Health and Veterinary
Concerns About Waterborne
Cryptosporidiosis
D.D. Juranek**

**4:30 (142) Lyme Borreliosis: Clinical and
Epidemiologic Significance for
Veterinary Medicine
K.A. Orloski**