

# PROCEEDINGS



**AMERICAN ASSOCIATION OF  
VETERINARY PARASITOLOGISTS**

**53<sup>rd</sup> Annual Meeting**

**July 19-22, 2008**

**New Orleans, LA**

**and**

**MEMBERSHIP DIRECTORY**

**AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS  
AWARDS HISTORY**

**Distinguished Veterinary Parasitologists**

1985	Jitender P. Dubey
1986	Norman D. Levine
1987	E. J. Lawson Soulsby
1988	Jeffrey F. Williams
1989	K. Darwin Murrell
1990	William C. Campbell
1991	Jay Hal Drudge and Eugene T. Lyons
1992	Gilbert F. Otto
1993	Thomas R. Klei
1994	Peter M. Schantz
1995	James C. Williams
1996	T. Bonner Stewart
1997	J. Owen D. Slocombe
1998	J. Ralph Lichtenfels
1999	Roger K. Prichard
2000	Edward L. Roberson
2001	Byron L. Blagburn
2002	Sidney A. Ewing
2003	Louis C. Gasbarre
2004	David S. Lindsay
2005	Jorge Guerrero
2006	John W. McCall
2007	Ronald Fayer
2008	Dwight D. Bowman

**2008 Distinguished Veterinary Parasitologist Award Winner**

**Dwight D. Bowman**

**2008 Distinguished Service Award Winner**

**Anne M. Zajac**

**AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS  
AWARDS HISTORY**

**Hoechst-Roussel Agri-Vet Company  
Graduate Student Research Award**

1987	Lora G. Rickard
1988	Debra A. Cross
1989	Stephen C. Barr
1990	Jim C. Parsons
1991	Carlos E. Lanusse
1992	David G. Baker
1993	Rebecca A. Cole
1994	Ray M. Kaplan
1995	Steve T. Storandt
1996	A. Lee Willingham III
1997	Carla C. Siefker
1998	Ryan M. O'Handley
1999	John S. Mathew
2000*	Sheila Abner
2001	Andrew Cheadle
2002	No recipient
2003	Mary G. Rossano
2004	Andrea S. Varela
2005	Alexa C. Rosypal
2006	Sheila M. Mitchell
2007	Martin K. Nielsen
2008	Heather D. Stockdale

\*As of 2000, this award was renamed the "Intervet Graduate Student Research Award".

**Companion Animal Parasite Council (CAPC)  
Zoonotic Disease Graduate Student Research Award**

2008	David G. Goodwin
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**Distinguished Service**

1976	Rurel R. Bell
1983	Terrance J. Hayes
1987	Norman F. Baker
1988	Donald E. Cooperrider
1994	S. D. "Bud" Folz
1997	Honorico Rick Ciordia
2006	Raffaele "Raf" Roncalli
2008	Anne M. Zajac

**AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS**  
Founded 1956

**Officers 2006-2007**

President	David S. Lindsay Verginia Tech Blacksburg, VA
President-Elect	Susan E. Little Oklahoma State University Stillwater, OK
Vice-President	Lora R. Ballweber Colorado State University Fort Collins, CO
Secretary/Treasurer	Alan A. Marchiondo Pfizer Animal Health Kalamazoo, MI
Immediate Past-President	Daniel E. Snyder Elanco Animal Health Greenfield, IN

**2007-2008 AAVP Committee Chairs**

**Program** - Lora R. Ballweber, Fort Collins, CO  
**Archives** - Tom Nolan, Philadelphia, PA  
**Historian** - Raf Roncalli, Milltown, NJ  
**Awards** - Jenifer Edmonds, Parma, ID  
**Constitution/Bylaws** - Isabelle Verzberger, Charlottetown, PEI, Canada  
**Education** - Gary Conboy, Charlottetown, PEI, Canada  
**Finance** - Bob Arther, Shawnee, KS  
**Newsletter** - Patrick Meeus, Kalamazoo, MI  
**Nominations** - Pat Payne, Manhattan, KS  
**Outreach/Research** - Charles MacKenzie, East Lansing, MI  
**Publications/Internet** - Ray Kaplan, Athens, GA  
**Student Representative** - David Goodwn, Blacksburg, VA  
**List Serve Manager** - Bert Stromberg, St. Paul, MN

**PAST PRESIDENTS  
OF THE  
AMERICAN ASSOCIATION OF  
VETERINARY PARASITOLOGISTS**

1956-1958	L. E. Swanson
1958-1960	Fleetwood R. Koutz
1960-1962	Wendell H. Krull
1962-1964	Saeed M. Gaafar
1964-1966	E. D. Besch
1966-1968	George C. Shelton
1968-1970	John H. Greve
1970-1972	Harold J. Griffiths
1972-1973	Donald E. Cooperrider
1973-1975	Demetrice L. Lyles
1975-1977	Harold J. Smith
1977-1979	Norman F. Baker
1979-1981	Edward L. Roberson
1981-1983	Jeffrey F. Williams
1983-1985	John B. Malone
1985-1986	Robert M. Corwin
1986-1987	K. Darwin Murrell
1987-1988	Thomas R. Klei
1988-1989	Harold C. Gibbs
1989-1990	Bert E. Stromberg
1990-1991	Roger K. Prichard
1991-1992	J. Owen D. Slocombe
1992-1993	Ronald Fayer
1993-1994	George A. Conder
1994-1995	Charles H. Courtney
1995-1996	Byron L. Blagburn
1996-1997	Peter M. Schantz
1997-1998	James C. Williams
1998-1999	Louis C. Gasbarre
1999-2000	Robert S. Rew
2000-2001	Thomas J. Kennedy
2001-2002	Anne M. Zajac
2002-2003	Joseph F. Urban, Jr.
2003-2004	Craig R. Reinemeyer
2004-2005	Linda S. Mansfield
2005-2006	Ann R. Donoghue
2006-2007	Daniel E. Snyder
2007-2008	David S. Lindsay

**PAST SECRETARY-TREASURERS  
OF THE  
AMERICAN ASSOCIATION OF  
VETERINARY PARASITOLOGISTS**

Wendell H. Krull	1956-1959
Edward G. Batte	1960
Donald E. Cooperrider	1961-1969
Rurel Roger Bell	1969-1977
Terence J. Hayes	1978-1983
Vassilios J. Theodorides	1983-1986
S.D. "Bud" Folz	1987-1992
Thomas J. Kennedy	1993-1998
Daniel E. Snyder	1998-2004
Alan A. Marchiondo	2004-

**PAST AAVP ANNUAL MEETINGS**

1956	1 <sup>st</sup> Annual Meeting – SAN ANTONIO, TX	16 OCT
1957	2 <sup>nd</sup> Annual Meeting – COLUMBUS, OH	17 AUG
1958	3 <sup>rd</sup> Annual Meeting – PHILADELPHIA, PA	18 AUG
1959	4 <sup>th</sup> Annual Meeting – KANSAS CITY, MO	23 AUG
1960	5 <sup>th</sup> Annual Meeting – DENVER, CO	14 AUG
1961	6 <sup>th</sup> Annual Meeting – WEST LAFAYETTE, IN	20 AUG
1962	7 <sup>th</sup> Annual Meeting – MIAMI BEACH, FL	12 AUG
1963	8 <sup>th</sup> Annual Meeting – NEW YORK CITY, NY	28 JUL
1964	9 <sup>th</sup> Annual Meeting – CHICAGO, IL	19 JUL
1965	10 <sup>th</sup> Annual Meeting – PORTLAND, OR	11 JUL
1966	11 <sup>th</sup> Annual Meeting – LOUISVILLE, KY	13-14 JUL
1967	12 <sup>th</sup> Annual Meeting – DALLAS, TX	9 JUL
1968	13 <sup>th</sup> Annual Meeting – BOSTON, MA	21 JUL
1969	14 <sup>th</sup> Annual Meeting – MINNEAPOLIS, MN	13 JUL
1970	15 <sup>th</sup> Annual Meeting – LAS VEGAS, NV	22 JUN
1971	16 <sup>th</sup> Annual Meeting – DETROIT, MI	18 JUL
1972	17 <sup>th</sup> Annual Meeting – NEW ORLEANS, LA	17 JUL
1973	18 <sup>th</sup> Annual Meeting – PHILADELPHIA, PA	15 JUL
1974	19 <sup>th</sup> Annual Meeting – DENVER, CO	21 JUL
1975	20 <sup>th</sup> Annual Meeting – ANAHEIM, CA	13 JUL
1976	21 <sup>st</sup> Annual Meeting – CINCINNATI, OH	19 JUL
1977	22 <sup>nd</sup> Annual Meeting – ATLANTA, GA	11 JUL
1978	23 <sup>rd</sup> Annual Meeting – DALLAS, TX	17 JUL
1979	24 <sup>th</sup> Annual Meeting – SEATTLE, WA	22-24 JUL
1980	25 <sup>th</sup> Annual Meeting – WASHINGTON, D.C.	20-22 JUL
1981	26 <sup>th</sup> Annual Meeting – ST. LOUIS, MO	19-20 JUL
1982	27 <sup>th</sup> Annual Meeting – SALT LAKE CITY, UT	18-19 JUL
1983	28 <sup>th</sup> Annual Meeting – NEW YORK, NY	17-18, JUL
1984	29 <sup>th</sup> Annual Meeting – NEW ORLEANS, LA	15-17 JUL

American Association of Veterinary Parasitologists  
53<sup>rd</sup> Annual Meeting  
Loews New Orleans Hotel, New Orleans, LA

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- 1985 30<sup>th</sup> Annual Meeting – LAS VEGAS, NV 22-24 JUL  
1986 31<sup>st</sup> Annual Meeting – ATLANTA, GA 20-22 JUL  
1987 32<sup>nd</sup> Annual Meeting – CHICAGO, IL 19-21 JUL  
1988 33<sup>rd</sup> Annual Meeting – PORTLAND, OR 17-18 JUL  
1989 34<sup>th</sup> Annual Meeting – ORLANDO, FL 16-18 JUL  
1990 35<sup>th</sup> Annual Meeting – SAN ANTONIO, TX 21-24 JUL  
1991 36<sup>th</sup> Annual Meeting – SEATTLE, WA 28-30 JUL  
1992 37<sup>th</sup> Annual Meeting – BOSTON, MA 2-4 AUG  
1993 38<sup>th</sup> Annual Meeting – MINNEAPOLIS, MN 17-20 JUL  
1994 39<sup>th</sup> Annual Meeting – SAN FRANCISCO, CA 9-12 JUL  
1995 40<sup>th</sup> Annual Meeting – PITTSBURGH, PA 6-10 JUL  
*(Joint meeting with the American Society of Parasitologists)*  
1996 41<sup>st</sup> Annual Meeting – LOUISVILLE, KY 20-23 JUL  
1997 42<sup>nd</sup> Annual Meeting – RENO, NV 19-22 JUL  
1998 43<sup>rd</sup> Annual Meeting – BALTIMORE, MD 25-28 JUL  
1999 44<sup>th</sup> Annual Meeting – NEW ORLEANS, LA 10-13 JUL  
2000 45<sup>th</sup> Annual Meeting – SALT LAKE CITY, UT 22-25 JUL  
2001 46<sup>th</sup> Annual Meeting – BOSTON, MA 14-17 JUL  
2002 47<sup>th</sup> Annual Meeting – NASHVILLE, TN 13-16 JUL  
2003 48<sup>th</sup> Annual Meeting – DENVER, CO 19-23 JUL  
2004 49<sup>th</sup> Annual Meeting – PHILADELPHIA, PA 24-28 JUL  
*(Joint meeting with the American Society of Parasitologists)*  
2005 50<sup>th</sup> Annual Meeting – MINNEAPOLIS, MN 16-19 JUL  
2006 51<sup>st</sup> Annual Meeting – HONOLULU, HI 15-18 JUL  
2007 52<sup>nd</sup> Annual Meeting – WASHINGTON, DC 14-17 JUL  
2008 53<sup>rd</sup> Annual Meeting – NEW ORLEANS, LA 19-22 JUL

**AAVP 53<sup>rd</sup> ANNUAL MEETING**  
**Loews New Orleans Hotel**

**REGISTRATION**

Parish Hall, 10<sup>th</sup> Floor  
Saturday, 19 July 2008, 1:00 PM – 6:00 PM  
Sunday, 20 July 2008, 8:00 AM – 5:00 PM  
Monday, 21 July 2008, 8:00 AM – 12:00 Noon

**SPEAKER READY ROOM**

Acadia, 9<sup>th</sup> Floor  
Saturday, 19 July 2008, 12:00 PM – 6:00 PM  
Sunday, 20 July 2008, 8:00 AM – 6:00 PM  
Monday, 21 July 2008, 8:00 AM – 4:00 PM

**SOCIAL PROGRAM**

**Welcoming Reception – Bayer Health Care, Animal Health**

LaFourche/Pointee Coupee, 9<sup>th</sup> Floor  
Saturday, 19 July 2008, 7:00 PM – 9:00 PM

**Eli Lilly Social**

LaFourche/Pointee Coupee, 9<sup>th</sup> Floor  
Sunday, 20 July 2008, 7:00 PM – 9:00 PM

**Merial Ltd Social**

LaFourche/Pointee Coupee, 9<sup>th</sup> Floor  
Monday, 21 July 2008, 7:00 PM – 9:00 PM

**AAVP Graduate Student/Post Doc Luncheon/Mixer**

Beauregard, 9<sup>th</sup> Floor  
Sunday, 20 July 2008, Noon – 1:30 PM

**AAVP 53<sup>rd</sup> ANNUAL MEETING**

Louisiana and Feliciana Ballrooms, 10<sup>th</sup> Floor

**AMERICAN ASSOCIATION OF VETERINARY PARASITOLOGISTS  
53<sup>rd</sup> ANNUAL MEETING SPONSORS**

**CORPORATE EVENT SPONSORS**

BAYER HEALTH CARE, ANIMAL HEALTH - Social  
ELI LILLY – Social  
MERIAL LTD – Social  
NOVARTIS ANIMAL HEALTH – All coffee breaks

**CORPORATE SPONSORS**

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INTERVET, INC.<sup>2</sup>  
COMPANION ANIMAL PARASITE COUNCIL<sup>3</sup>  
IVX ANIMAL HEALTH, INC.<sup>4</sup>  
MERIAL, LTD<sup>5</sup>

<sup>1</sup>AAVP Best Student Paper Presentation Awards

<sup>2</sup>Honorarium for Graduate Student Award

<sup>3</sup>Honorarium for Zoonotic Disease Research Award

<sup>4</sup>In-Kind Meeting and Annual Association Support

<sup>5</sup>Honorarium for Distinguished Veterinary Parasitologist Award

**GENERAL MEETING SPONSORS**

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**The American Association of Veterinary Parasitologists (AAVP) gratefully acknowledges the above companies for their support and sponsorship of the 2008 annual meeting.**

American Association of Veterinary Parasitologists  
53<sup>rd</sup> Annual Meeting  
Loews New Orleans Hotel, New Orleans, LA

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SATURDAY JULY 19		SUNDAY JULY 20		MONDAY JULY 21		TUESDAY JULY 22	
ACADIA, 9 <sup>TH</sup> FLOOR SPEAKER READY ROOM 12:00 PM - 6:00 PM		ACADIA, 9 <sup>TH</sup> FLOOR SPEAKER READY ROOM 8:00 AM - 5:00 PM		ACADIA, 9 <sup>TH</sup> FLOOR SPEAKER READY ROOM 8:00 AM - 4:00 PM			
PARISH HALL, 10 <sup>TH</sup> FLOOR AAVP REGISTRATION TABLE 12:00 PM - 6:00 PM		PARISH HALL, 10 <sup>TH</sup> FLOOR AAVP REGISTRATION TABLE 8:00 AM - 6:00 PM		PARISH HALL, 10 <sup>TH</sup> FLOOR AAVP REGISTRATION TABLE 8:00 AM - 12:00 PM			
ST. LANDRY, 9 <sup>TH</sup> FLOOR AAVP Executive Committee / Board Meeting / Lunch 8:00 AM - 1:00 PM		LOUISIANA BALLROOM, 10 <sup>TH</sup> FLOOR  <u>Session IV:</u>  Intervet/AAVP Outstanding Graduate Student Talk-Heather Stockdale 8:00 - 8:30 AM  <i>Student Presentations</i> 8:30 - 10:00 AM		LOUISIANA BALLROOM, 10 <sup>TH</sup> FLOOR  <u>Session IX:</u>  <i>Small Animal Parasitology 2</i> 8:00 - 10:00 AM		FELICIANA, 10 <sup>TH</sup> FLOOR  <u>Session XI:</u>  <i>Interesting Cases / Wildlife</i> 8:00 - 10:00 AM	
						LOUISIANA BALLROOM, 10 <sup>TH</sup> FLOOR  <u>Session XIV:</u>  AAVP/ PRESIDENT'S SYMPOSIUM:  <i>Parasite Myth Busters: Fact and Fiction</i> 9:00 - 11:00 AM  Moderator: David Lindsay	
		BREAK 10:00 - 10:15 AM		BREAK 10:00 - 10:30 AM		BREAK 9:30 - 10:00 AM	
		LOUISIANA BALLROOM  <u>Session IV- Continued</u>  <i>Student Presentations</i> 10:15 AM - Noon		LOUISIANA BALLROOM <u>Session X:</u> <i>Food Animal Parasitology 2</i> 10:30 - 11:30 AM  AND  <i>Parasite Resistance Committee Meeting</i> 11:30 AM - Noon		FELICIANA <u>Session XII:</u> <i>Immunity and Host/Parasite Interactions</i> 10:30 AM - 12:00	
AAVP MEETING CONVENES OPENING SESSION  2:00 PM - LOUISIANA BALLROOM		BEAUREGARD (9 <sup>TH</sup> FLOOR) AAVP Graduate Student/Post Doc Luncheon/Mixer Noon - 1:30 PM  Regular Members - Lunch on your own Noon - 1:30 PM		Lunch Break Noon - 1:30 PM			
OPENING REMARKS: President David Lindsay VP/Program Chair: Lora Ballweber 2:00 PM - 2:30 PM  Opening Session: <i>Parasites and the Road Less Traveled</i> 2:30 PM - 4:00 PM		LOUISIANA BALLROOM <u>Session V:</u> <i>Food Animal Parasitology 1</i> 1:30 - 3:30 PM		FELICIANA <u>Session VI:</u> <i>Geographic distribution &amp; prevalence of parasites &amp; tick-borne disease agents: a snapshot of this wormy world</i> 1:30 - 3:15 PM		LOUISIANA BALLROOM <u>Session XIII</u> <i>All Things Ticks and Other Topics</i> 1:30 - 3:00	
Break 4:00 - 4:30 PM		BREAK 3:30 - 4:00 PM		BREAK 3:15 - 3:30 PM			
LOUISIANA BALLROOM I  <u>Session II:</u> <i>Equine Parasitology</i> 4:30 - 5:15 PM	LOUISIANA BALLROOM II  <u>Session III:</u> <i>Small Animal Parasitology 1</i> 4:30 - 5:30 PM	FELICIANA <u>Session VII:</u> <i>Protozoa of Food Animals</i> 4:00 - 5:00 PM		LOUISIANA BALLROOM Presidential Address - David Lindsay 3:30 - 4:00 PM  AAVP Business Meeting 4:00-5:00 PM  AAVP Awards and Pictures 5:00 - 5:30			
LOUISIANA BALLROOM II  BOARD CERTIFICATION FOR VETERINARY PARASITOLOGISTS - DISCUSSION 5:30 - 6:30 PM		LOUISIANA BALLROOM  <u>Session VIII:</u> Eli Lilly Animal Health Comfortis (Spinosad) Symposium 5:00 - 6:30 PM					
LAFOURCHE/POINTE COUPEE, 9 <sup>TH</sup> FLOOR BAYER SOCIAL 7:00 - 9:00 PM		LAFOURCHE/POINTE COUPEE, 9 <sup>TH</sup> FLOOR ELI LILLY SOCIAL 7:00 - 9:00 PM		LAFOURCHE/POINTE COUPEE, 9 <sup>TH</sup> FLOOR MERIAL SOCIAL 7:00 - 9:00 PM			

## Program for 2008AAVP Meeting

*Saturday July 19, 2008*

**8:00 AM-1:00 PM AAVP Executive  
Committee Meeting & Luncheon.**

**St. Landry**

*All AAVP officers and committee  
chairs please plan to attend!*

**1:00 PM-6:00 PM Registration**

**Parish Hall**

*...and throughout the meeting,  
8 AM-5 PM on July 20, 2008  
8 AM-12 PM on July 21, 2008*

**12:00 PM - 6:00 PM Speaker Ready  
Room. Acadia.**

*...and throughout the meeting,  
8 AM-6 PM on July 20, 2008  
8 AM-4 PM on July 21, 2008*

**2:00-4:00 PM Opening Session / Session I  
Louisiana Ballroom**

**2:00 Opening Remarks.**

**President: David Lindsay**

**Vice President and Program Chair:  
Lora Ballweber**

**2:30-4:00 Topic: *Parasites and the Road  
Less Traveled***

**Moderator: Lora Ballweber**

**2:30 1** Control of digenetic trematodes at the aquatic/wildlife interface. Linda M. Pote\*, Todd S. Byars, Alvin C. Camus, Cynthia Doffitt, Brian S. Dorr, Barbara A. George, D. Tommy King, Lester Khoo, Carla C. Panuska, David J. Wise, and Marlena C. Yost.

**3:00 2** Microsporidiosis: emerging and opportunistic infections in animals and humans. Karen F. Snowden.

**3:30 3** Crazy like a fox (hound): update on leishmaniasis in the United States. Alexa C. Rosypal and David S. Lindsay\*.

### *A special thanks to our many sponsors.*

*The American Association of  
Veterinary Parasitologists gratefully  
acknowledges the support of our many  
sponsors, friends, and colleagues.*

*Thank you for making this meeting possible.*

#### **GENERAL MEETING SUPPORT**

Bayer Animal Health  
Divergence, Inc.  
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#### **EVENING SOCIALS/BREAKS**

Bayer Health Care, Animal Health  
Eli Lilly  
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Novartis Animal Health



**4:00-4:30 PM BREAK**



**Saturday July 19, 2008, Late Afternoon**

**4:30 PM-5:15 PM Session II.**

**Louisiana Ballroom I**

**Topic: Equine Parasitology**

**Moderators: Tammi Krecek**

**4:30 4** Efficacy of 2X pyrantel pamoate paste against a macrocyclic lactone-resistant isolate of *Parascaris equorum* in horses. Craig R. Reinemeyer\*, Julio C. Prado and Alan A. Marchiondo.

**4:45 5** Equine cyathostomin species mucosal larval development: *in vitro* and *in vivo* observations. Thomas R. Klei\*, Emanuel Brianti, Donato Traversa, Krishna P. Shakya, Sharon R. Chirgwin, M.T. Kearney, Melanie R. Chapman.

**5:00 6** The effect of sample handling and storage on the accuracy and repeatability of fecal worm egg counts in horses. Kimberly L. DeLisi\*, Anand N. Vidyashankar, Martin K. Nielsen, Ray M. Kaplan.

**Saturday July 19, 2008, Late Afternoon**

**4:30 PM-5:30 PM Session III.**

**Louisiana Ballroom II**

**Topic: Small Animal Parasitology 1**

**Moderators: Holly Brown and Patricia Payne**

**4:30 7** *In vivo* adulticide activity of a flea dermal treatment against the cat flea (*Ctenocephalides felis*) on cats in a comparative efficacy study versus Imidacloprid. Martin Murphy, Albert Ahn\*, Sheila Gross, and Cathy Ann Ball.

**4:45 8** The effect of four insecticides on the feeding of cat fleas placed on cats. Christine M. McCoy\*, Alberto B. Broce, Rudolf Schenker, and Michael W. Dryden.

**5:00 9** Control of hookworms in dogs and cats following repeated monthly *Advantage Multi*® (imidacloprid + mosidectin) treatments. Larry R. Cruthers, Robert G. Arther\*, Sam D. Charles, Chris L. Basel, Joe A. Hostettler, and Terry L. Settje.

**5:15 10** A controlled evaluation of the efficacy of HEARTGARD® PLUS against induced *Baylisascaris procyonis* infection in dogs. Craig R. Reinemeyer\*, Christine Berthelin-Baker, Roberto Alva, Jennifer Irwin, Diane Larsen, Davida Romano, Marsha Pettyjohn, Michael E. Ulrich, Dawn Manthei, and Keven R. Kazacos.

**5:30 – 6:30 PM**

**BOARD CERTIFICATION FOR VETERINARY PARASITOLOGISTS - DISCUSSION**

**Moderators: Susan Little and Patrick Meeus**

**Louisiana Ballroom**

**7:00 - 9:00 PM**



**BAYER SPONSORED WELCOME SOCIAL in LaFourche/Pointe Coupee**



**Sunday July 20, 2008, Early Morning**

**8:00 AM-10 AM Session IV.**

**Louisiana Ballroom**

**Topic: Student Presentations**

**Moderators: Stacey A. Elmore and Sharon Patton**

**8:00 11** Intervet/AAVP Outstanding Graduate Student Talk – Heather D. Stockdale

**8:30 12** Evaluation of antipsychotic drugs and mood stabilizing agents against *Toxoplasma gondii* in cell cultures. David G. Goodwin\*, Jeannine Strobl, Sheila M. Mitchell, Anne M. Zajac, and David S. Lindsay.

**8:45 13** Post treatment evaluation of *Giardia* spp. Marjory A. Artzer\*, Patricia A. Payne, Michael W. Dryden, Vicki Smith, Sarah O. Mailen, and Amy L. McBride.

**9:00 14** Functional genetic diversity and parasite resistance in black-tailed prairie dogs (*Cynomys ludovicianus*). Elizabeth M. Harp\* and Michael F. Antolin.

**9:15 15** Mechanism of action of copper oxide wire particles (COWP) as an anthelmintic agent. Allyson K. Moscona\*, Olga Borkhsenius, Gary A. Sod, Brooke A. Leibenguth, and James E. Miller.

**9:30 16** The early cellular immune response to *Haemonchus contortus* in resistant and susceptible sheep. Scott A. Bowdridge\*, Garrett P. Smith, Anne M. Zajac, and David R. Notter.

**9:45 17** Comparative evaluation of immune responses to *Haemonchus contortus* infections in relatively resistant Gulf Coast Native and susceptible Suffolk lambs. Krishna P. Shakya\*, James E. Miller, David W. Horohov, and Larry G. Lomax.

**10:00-10:15 AM BREAK**



**Sunday July 20, 2008, Late Morning**

**10:15 AM-11:45 AM Session IV, Cont.**

**Louisiana Ballroom**

**Topic: Student Presentations**

**Moderators: Valeria Scorza and Anne Zajac**

**10:15 18** Determination of hemolytic activity in clinically virulent and avirulent *Trichomonas gallinae* isolates and its use as an *in vitro* virulence assay. Richard W. Gerhold\*, Michael J. Yabsley, and John R. Fischer

**10:30 19** Application of a real-time polymerase chain reaction for the detection of *Henneguya ictaluri* in commercial channel catfish ponds. Matt J. Griffin\*, David J. Wise, Alvin C. Camus, Michael J. Mael, Terrence E. Greenway, and Linda M. Pote.

**10:45 20** Role of the Gulf Coast Tick, *Amblyomma maculatum*, and cattle in the natural history of the newly described *Rickettsia parkeri* infection (American Boutonneuse Fever). Kristine T. Edwards\*, Jerome Goddard, Christopher D. Paddock, and Andrea S. Varela-Stokes.

**11:00 21** Diversity of *Hepatozoon* species in naturally infected dogs in the southern United States. Kelly E. Allen\*, Yihang Li, Bernhard Kaltenboeck, Eileen M. Johnson, Mason V. Reichard, Roger J. Panciera, and Susan E. Little

**11:15 22** Genetic variability of *Cytauxzoon felis* isolates from infected domestic cats in Arkansas and Georgia. Holly M. Brown\*, and David S. Peterson.

**11:30 23** Molecular comparison of *Tritrichomonas foetus* from bovines and felines. Heather D. Stockdale\*, Scott C. Lenaghan, Christine C. Dykstra, and Byron L. Blagburn.

**11:45 24** Oral transmission of *Trypanosoma cruzi* with opposing evidence for the role of carnivory in horizontal transmission. Dawn M. Roellig\*, Angela E. Ellis, and Michael J. Yabsley.

**12:00-1:30 PM, AAVP GRADUATE STUDENT LUNCHEON/MIXER – Beauregard**

**Sunday July 20, 2008, Early Afternoon**

**1:30-3:30 PM Session V**

**Louisiana Ballroom**

**Topic: Food Animal Parasitology I**

**Moderators: Ally Moscona and Tom Yazwinski**

**1:30 25** Pathology associated with *Bolbophorus damnificus* in channel catfish (*Ictalurus punctatus*) fingerlings. Marlena C. Yost\*, Lester H. Khoo, and Linda M. Pote.

**1:45 26** The FAMACHA<sup>®</sup> program in the US: a success story of *Haemonchus* proportions. Bob Storey\*, Julie Vargas, and Ray Kaplan.

**2:00 27** Herbal dewormer fails to control gastrointestinal nematodes in goats. Joan M. Burke, Ann Wells, Paul Casey, and Ray M. Kaplan\*.

**2:15 28** Evaluation of natural plant products as anthelmintic agents using the larval migration inhibition assay. Sue B. Howell\*, Bob Storey, and Ray M. Kaplan.

**2:30 29** Development of agar gel larval migration assay to detect anthelmintic resistance of *Ascaris suum*. Qian Han\*, Qun Liu, Qinghua Wang, and Lis Eriksen.

**2:45 30** Diagnostic evaluation of fascioliasis in llamas using coprological, pathological and serological tests. Michael L. Kent\*, Michelle A. Kutzer, Jerry Heidel, William J. Foreyt, Diana Ambrose, and Ray M. Kaplan.

**3:00 31** Effect of manure preparation technique on larval recovery from fecal cultures. Anne M. Zajac\*, James E. Miller, Ray M. Kaplan, and Tom H. Terrill.

**Sunday July 20, 2008, Early Afternoon**

**1:30 AM-3:15 PM Session VI.**

**Feliciana**

**Topic: Geographic distribution and prevalence of parasites & tick-borne disease agents: a snapshot of this wormy world**

**Moderators: Susan E. Little and Dwight D. Bowman**

**1:30 33** The zoonotic aspect of *Giardia duodenalis*. Valeria Scorza\*, Michael R. Lappin and Lora R. Ballweber.

**1:45 34** A review and update of the current understanding of the genus *Cryptosporidium* with regards to human disease and zoonosis. Araceli Lucio-Forster\* and Dwight D. Bowman.

**2:00 35** *Toxoplasma gondii*: summarizing prevalence, risk factors, and human behavior. Stacey A. Elmore\* and Lora R. Ballweber.

**2:15 36** Prevalence of tick-borne disease agents in dogs in North America: a review. Stephanie R. Heise\*, Kelly E. Allen, Misti D. West, and Susan Little

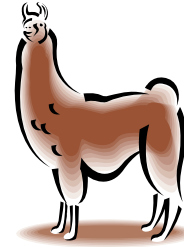
**2:30 37** Current state of *Toxocara* spp. in dogs and cats: new information on transmission. Alice C. Y. Lee\* and Dwight D. Bowman.

**2:45 38** Canine and feline intestinal parasite prevalence revisited. Heather D. Stockdale\*, Susan E. Little, and Byron L. Blagburn.

**3:00 39** Current state of *Dirofilaria immitis* in the US: national survey on prevalence of heartworm infection in dogs. Alice C. Y. Lee\*, and Dwight D. Bowman.

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**3:15 32** Comparison of quantitative (Modified Wisconsin) and qualitative (fecal flotation with centrifugation in Sheather's sugar) techniques to evaluate recovery of parasite eggs and ova from sheep and goats, llamas and alpacas, and cattle. Patricia A. Payne\*, Michael W. Dryden, Marjory Artzer, Sara Mailen, Amy McBride, Sara Mailen, and Vicki Smith.



**3:30-4:00 PM BREAK**



*Sunday July 20, 2008, Late Afternoon*

**4:00 PM – 5:00 PM Session VII.  
Feliciano**  
*Topic: Protozoa of Food Animals*  
**Moderators: Marlena Yost and**

**4:00 40** A potential rapid method for detecting *Eimeria maxima* oocysts in poultry litter. Mark C. Jenkins\*, Raymond H. Fetterer, and Francesca M. Nielsen.

**4:15 41** Identification and characterization of a serpin from *Eimeria acervulina*. Raymond H. Fetterer\*, Katarzyna B. Miska, Mark C. Jenkins, Hyun Lillehoj, and Ruth C. Barfield

**4:30 42** Genomic analysis of *Eimeria* species in relation to chicken farm performance levels. Ryan S. Schwarz\*, Mark C. Jenkins, Spangler Klopp, and Katarzyna B. Miska.

**4:45 43** Prevalence and impact of *Isospora suis* in suckling piglets in Ontario, Canada. Andrea Aliaga-Leyton, Emma Webster, Robert M. Fridenship, Cate Dewey, Kevin Vilaca, and Andrew S. Peregrine\*.

*Sunday July 20, 2008, Early Evening*

**5:00 – 6:30 PM  
LILLY ANIMAL HEALTH COMFORTIS  
(SPINOSAD) SYMPOSIUM  
Moderator: Byron Blagburn**

**Session VIII. Louisiana Ballroom**

**44** Introducing Comfortis™ - Spinosad discovery & development. Anthony Rumschlag\*.

**45** Why develop an oral flea adulticide? James R. McDougall\*.

**46** Oral pulicides can be more effective in stopping fleas feeding. Christine M. McCoy\*.

**47** The safety profile of spinosad and post-launch field experience. Lori A. Thompson\*.

**48** Studies investigating the effectiveness of orally administered spinosad in dogs under laboratory and field conditions. Daniel E. Snyder\*

**7:00 - 9:00 PM  
LILLY ANIMAL HEALTH SPONSORED  
SOCIAL in LaFourche/Pointe Coupee**



**Monday July 21, 2008, Early Morning**

**8:00 AM-10:00 AM Session IX**

**Louisiana Ballroom**

**Topic: Small Animal Parasitology 2**

**Moderators: Marjory A. Artzer and**

**8:00 49** Sensitivity and specificity of RAPID™ and RAPID™ 2.0 canine heartworm antigen test Kits. Cuong Tu Ba\*.

**8:15 50** Field trial of RAPID™ and RAPID™ 2.0 canine heartworm antigen test Kits. Cuong Tu Ba\*, Catherine Benezale, Dale Kang, Tom Rainey, and Sharon Motta.

**8:30 51** Evaluation of a rapid immunochromatographic assay for detection of *Trypanosoma cruzi* antibodies in wildlife reservoirs. Michael J. Yabsley\*, Emily L. Brown, and Dawn M. Roelig.

**8:45 52** Canine spirocercosis: innovative coprological and molecular diagnostic methods. Donato Traversa\*, Stefania Avolio, David Modry, Domenico Otranto, Raffaella Iorio, Piermarino Milillo, Giuseppe Cringoli, Angela Di Cesare, Katka Albrechtova, Andrei D. Mihalca, and Eran Lavy.

**9:00 53** Current status of heartworm in Minnesota. Paulo Cesar Gomes Filho, Manuel Roberto Cortinas, and Bert E. Stromberg\*.

**9:15 54** Feline aelurostrongylosis sporadic or underestimated disease: prevalence study and therapeutic trial in cats of southern Italy. Emanuele Brianti\*, Maria G. Pennisi, Anna L. Risitano, Gabriella Gaglio, and Salvatore Giannetto.

**9:30 55** Zoonotic parasites of household dogs and cats in the Netherlands. Paul A.M. Overgaauw\*, Titia M. Kortbeek, and Frans van Knapen.

**Monday July 21, 2008, Early Morning**

**8:00 PM-10:00 AM Session XI**

**Feliciana**

**Topic: Interesting Cases/Wildlife**

**Moderators: and Michael J. Yabsley**

**8:00 61** Home infestation with *Cimex lectularis*, the common bed bug, affecting both dog and client. Susan E. Little\* and Misti D. West.

**8:15 62** *Eucoleus boehmi* infection in a boxer-Shar pei cross: treatment using milbemycin oxime. Gary A. Conboy\*, Tonya Stewart, and Susan O'Brien.

**8:30 63** A coughing canine can confuse a clinician. April W. Everett, Karen F. Snowden\*, and Tom M. Craig.

**8:45 64** Unsuccessful treatment of a horse with mandibular granulomatous osteomyelitis due to *Halicephalobus gingivalis*, and chemoprophylaxis of potentially exposed people. Andrew S. Peregrine\*, Robin Ferguson, Tony van Dreumel, Jay S. Keystone, Alan Manning, Andrea Malatestinic, and Jeff L. Caswell.

**9:00 65** First report of *Parascaris equorum* in a white-tailed deer, *Odocoileus virginianus*. Araceli Lucio-Forster\*, Anna E. Sweetman, David Szabo, Kyla Ortved, Marc Kinsley, Jordyn Boesch, Robin Gleed, and Dwight D. Bowman.

**9:15 66** *Klossiella equi* sporocysts in the urine of an immunosuppressed horse. Lora R. Ballweber\*, Gabriele Landolt, and David Manuelito.

**9:30 67** Fatal toxoplasmosis in a rainbow lory (*Trichoglossus haematodus haematodus*). Karen F. Snowden\*, Thomas W. deMaar, and W.L. Wigle

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**9:45 56** Effects of multiple exposures of *Crenosoma vulpis* infection in dogs on larval fecal shedding patterns. Gary Conboy\* and R.J.F. Markham.

**10:00-10:30 AM BREAK**

**Monday July 21, 2008 , Late Morning**

**10:30 AM-12:00 PM Session X.  
Louisiana Ballroom**

**Topic: Food Animal Parasitology 2 and Parasite Resistance Committee Meeting**  
**Moderators: Dan Snyder**

**10:30 57** Evaluation of long-acting moxidectin and ivermectin in the development of replacement beef heifers. Jeremy G. Powell\*, Tom A. Yazwinski, Chris A. Tucker, Jana L. Reynolds, Zelpha B. Johnson, A. Hayden Brown Jr., J.A. Hornsby, and Bill C. Clymer.

**10:45 58** Evaluation of fenbendazole oral drench plus ivermectin injectable vs. moxidectin injectable on performance of finishing steers. Harold L. Newcomb\*, John Hutcheson, Scott Nordstrom, William Burdett, Michael Bolton, David Brister, and Tom Shelton.

**11:00 59** Efficacy evaluation of cattle anthelmintics under natural field conditions throughout the U.S. using the Fecal Egg Count Reduction Test (FECRT). Donald H. Bliss\*, Harold Newcomb, and William G. Kvasnicka.

**11:15 60** Current efficacies of several cattle nematocides as determined via fecal egg count reductions. Thomas A. Yazwinski\*, Chris A. Tucker, James A. Hornsby, Jeremy G. Powell, Jana L. Reynolds, Zelpha B. Johnson, William Lilndsey, Tifanie K. Silver.

**11:30 AM – 12:00 PM  
PARASITE RESISTANCE  
COMMITTEE MEETING**

**9:45 68** *Toxoplasma gondii* and *Trichinella* spp. in wolverines (*Gulo gulo*) from Nunavut, Canada. Mason V. Reichard\*, Luigi Torretti, Jason M. Garvon, Edoardo Pozio, and J.P. Dubey.



**Monday July 21, 2008, Late Morning**

**10:30 AM-12:00 PM Session XII.  
Feliciana**

**Topic: Immunity and Host/Parasite Interactions**  
**Moderators: David G. Goodwin and**

**10:30 69** Characterization of a gene in *Babesia bovis* syntenic to p67 of *Theileria parva*. Jeanne M. Howell\*, Lowell S. Kappmeyer, Terry F. McElwain, Kelly A. Brayton, and Donald P. Knowles.

**10:45 70** Vaccination of female BALB/c mice with *Neospora cyclophilin* and/or NcSRS2 elicits specific antibody response and prevents against challenge infection by *Neospora caninum*. Wenbin Tuo\*, Yan Zhao, Daming Zhu, and Mark C. Jenkins.

**11:00 71** Cloning, expression, and characterization of *Giardia duodenalis*  $\beta$ -giardin. J.M. Trout, C.N. O'Brien, K.B. Miska, R.S. Schwarz, and M.C. Jenkins\*.

**11:15 72** Characterization of carbohydrates in the cercariae of two species of *Bolbophorus*. Carla Panuska\* and Linda M. Pote.

**11:30 73** Effect of vaccinating grazing ewes with *Haemonchus contortus* H11/HgalGP antigens on established infection. Allison Hickey, James E. Miller\*, Krishna Shakya, and W. David Smith.

**11:45 74** Humoral immune response to nematode parasite infection is accelerated and longer-lived in hair-type sheep. Scott A. Bowdridge\*, Kathryn M. MacKinnon, Joshua C. McCann, Anne M. Zajac, and David R. Notter.

**12:00-1:30 PM LUNCH**

**Monday July 16, 2007, Early Afternoon**

**1:30 PM-3:30 PM Session XIII.**

**Louisiana Ballroom**

**Topic: All things ticks and other topics**

**Moderator: Kristine T. Edwards and**

**1:30 75** Hemolymph testing as a means of detecting *Rickettsia parkeri* in *Amblyomma maculatum*. Andrea S. Varela-Stokes\*, Kristine T. Edwards, Jerome Goddard and Christopher Paddock.

**1:45 76** Attachment rates of *Rhipicephalus sanguineus* ticks on artificially infested dogs using different infestation procedures. Nicole C. Wirthlerle, Jyoti Soni-Gupta, Martin Murphy, Rick G. Clemence, and Patrick Meeus\*

**2:00 77** Poor female feeding performance in *Amblyomma americanum* colony ticks. Is it the male or female tick? John H. Pruett\* and Pia U. Olafson.

**2:15 78** Organophosphate resistance in *Rhipicephalus (Boophilus) microplus*: expression, catalytic properties and mutations in multiple acetylcholinesterases. Kevin B. Temeyer\*, John H. Pruett, Pia U. Olafson, and Andrew C. Chen.

**2:30 79** A serological study of exposure to selected arthropod-borne pathogens among hunting dogs from South Korea. Lun Lim, SeungRuong Lee, ShinHyung Cho, Peter J. Irwin, and SungShik Shin\*.

**2:45 80** Prevalence and risk factors of *Toxoplasma gondii* antibodies among blood donors in Egypt. Hany M. Elsheikha\*, Manar S. Azab, and Mohammad H. Rahbar.

**Monday July 16, 2007, Late Afternoon**

**3:30-5:30**

**AAVP Business Meeting/Awards**

**Louisiana Ballroom**



**President Dan Snyder**

**3:30-4:00 PRESIDENTIAL ADDRESS-  
Dan Snyder**

**4:00-5:00 AAVP BUSINESS MEETING**

**5:00-5:30 AAVP AWARDS/PICTURES**  
*All award recipients, including student travel grant awardees, and all students in the paper competition, please plan to attend!*

**7:00 - 9:00 PM**  
**MERIAL LTD SPONSORED SOCIAL**  
in  
**LaFourche/Pointe Coupee**



**3:00-3:30 PM BREAK**



***Tuesday July 22, 2008, Morning***

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**8:00 AM-12:00 PM Session XIV.  
AAVP PRESIDENT'S SYMPOSIUM  
Louisiana Ballroom  
Topic: *Parasite Myth Busters: Fact and Fiction***

**Moderator: David Lindsay**

**9:00 81** Common myths about fleas and flea control. Byron L. Blagnurn\*

**9:30 82** Some commonly held myths and misconceptions relative to canine heartworm. Dwight D. Bowman\*

**10:00 83** Overview of the epidemiology of *Giardia*. Monica Santin\*

**10:30 84** Amphibian malformation: what we now know. Anne M. Schotthoefer\* and Rebecca A. Cole

**11:00 AM – MEETING ADJOURNS  
- SAFE TRAVELS**

