

VETERINARY CLINICAL SCIENCES

**SCHOOL OF VETERINARY MEDICINE
LOUISIANA STATE UNIVERSITY**

ANNUAL REPORT

2005 -06

(March 1, 2005 - February 28, 2006)

Respectfully submitted

**David F. Senior, BVSc, Dipl. ACVIM
Professor and Head
Veterinary Clinical Sciences
Louisiana State University**

Faculty of the Department of Veterinary Clinical Sciences

Administration

Peter F. Haynes, DVM, MS
Professor and Executive Associate Dean
Diplomate, ACVS

Dennis M. McCurnin, DVM, MS
Professor and Director, VTH&C
Diplomate ACVS

David F. Senior, BVSc
Professor and Head, VCS
Diplomate, ACVIM (IM)
Diplomate, ECVIM-CA

Joseph Taboada, DVM
Professor and Associate Dean of Students
and Academic Affairs
Diplomate, ACVIM (IM)

Anesthesiology

Lauren A. Beebe DVM
Visiting Instructor

Claudio Natalini, MV, MS, PhD
Assistant Professor
Diplomate, BCVSA

Bird Zoo, & Exotic Medicine

Mark A. Mitchell, DVM, MS
Assistant Professor

Thomas N. Tully, Jr., DVM, MS
Professor
Diplomate, ABVP-Avian; ECAMS

Javier G. Nevarez, DVM
Instructor

Companion Animal Med/Cardiology

Amy M. Grooters, DVM
Assistant Professor
Diplomate ACVIM (IM)

Susan M. Eddlestone, DVM
Assistant Professor
Diplomate ACVIM

Frederic P. Gaschen Dr. Med vet
Associate Professor

Diplomate ACVIM
Diplomate ECVIM-CA
David Hunley, DVM
Instructor

G. Neal Mauldin, DVM
Assistant Professor
Diplomate ACVIM (IM, Oncology)
Diplomate ACVR (Radiation Oncology)

Glenna E. Mauldin, DVM, MS
Assistant Professor
Diplomate, ACVIM (Oncology)

T. Mark Neer, DVM
Professor
Diplomate, ACVIM (IM)

Keith N. Strickland, DVM
Assistant Professor
Diplomate ACVIM (Cardiology)

Companion Animal Surgery

Giselle Hosgood, BVSc, MS
Professor
Diplomate, ACVS

Loretta J. Bubenik, DVM, MS
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Diplomate, ACVS

Jackie R. Davidson, DVM, MS
Associate Professor
Diplomate, ACVS

Cheryl S. Hedlund, DVM, MS
Professor
Diplomate, ACVS

Susanne K. Lauer, Dr.med.vet.
Assistant Professor
Diplomate, ACVS

Dermatology

Carol S. Foil, MS, DVM
Professor
Diplomate, ACVD

Sandra R. Merchant, DVM
Professor
Diplomate, ACVD

Equine Medicine

Jill R. Johnson, DVM, MS
Professor
Diplomate, ACVIM (IM)
Diplomate, ABVP

Susan C. Eades, DVM, PhD
Associate Professor
Diplomate, ACVIM

Rebecca S. McConnico, DVM, PhD
Assistant Professor
Diplomate, ACVIM (IM)

Equine Surgery

Daniel J. Burba, DVM
Associate Professor
Diplomate, ACVS

Jeremy D. Hubert, BVSc, MS
Assistant Professor
Diplomate, ACVS

Rustin M. Moore, DVM, PhD
Professor
Diplomate, ACVS

Colin F. Mitchell, BVMS, MS
Assistant Professor
Diplomate, ACVS

Wayne Waguespack, DVM, MS
Assistant Professor
Diplomate ACVS

Farm Animal Health Management

Dennis D. French, DVM, MS
Professor
Diplomate ABVP

Marjorie S. Gill, DVM, MS
Associate Professor
Diplomate, ABVP

Phillip G. Hoyt, DVM
Associate Professor

Gary A. Sod, PhD, DVM
Instructor

Ophthalmology

Eric S. Storey, DVM, MS
Assistant Professor

Radiology

Lorrie E. Gaschen, DVM, PhD
Associate Professor
Diplomate ECVDI

G. Neal Mauldin, DVM
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Diplomate ACVIM (IM, Oncology)
Diplomate ACVR (Radiation Oncology)

Santos Ramirez, DVM, MS
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Diplomate ACVIM

Theriogenology

Dale L. Paccamonti, DVM, MS
Professor
Diplomate, ACT

Bruce E. Eilts, DVM, MS
Professor
Diplomate, ACT

Sara K. Lyle, DVM, MS
Instructor
Diplomate ACT

Bruce M. Olcott, DVM, MS, MBA
Associate Professor

Support Faculty

Stephanie W. Johnson, BA, MSW, BCSW, LCSW
Instructor, Human Animal Bond
Counselor, Personal and Grief

Research Faculty

Mandi J. Lopez, DVM, PhD
Assistant Professor
Diplomate ACVS

Changaram S. Venugopal, BVSc, Msc, MS, PhD
Professor

Ashley M. Stokes, DVM, PhD
Research Assistant Professor

Adjunct Faculty

Roberto F. Aguilar, DVM
Marvene Augustus, PHARM.D, R.Ph
Allison Barca, DVM
Patrick R. Bernard, DVM
R. Scott Buzhardt, DVM
James R. Corley, DVM
Larry L. Findley, DVM
Jeffery Gimble, MD, PhD
Stephen D. Goodeaux, DVM
Gary M. Greene, DVM
David R. Harrington, DVM
Diane M. Harrington, DVM
R. Kelly Hill, Jr., BA, MD
James M. Lacour, DVM
Maxwell A. Lea, DVM
Catherine Mauberret, DVM
Claude Mauberrett Jr., DVM
Stephen M. Miller, DVM
Daniel W. Neck, DVM
Karen K. Pallone, DVM
Michael P. Pallone, DVM
Curtis R. Partington, MS, PhD, MD
Gordon J. Pirie, BS, DVM
Thomas J. Rowell, BS, DVM
Mobashir A. Solangi, BSc, MSc, PhD
Scott F. Smith, DVM
Alfred G. Stevens, DVM
Mary C. Thompson, DVM
A. Paul Turchi, DVM
Robert A. Whitlock, BA, MDiv, MS
Karen J. Wolfsheimer, DVM, PhD

VCS Faculty who vacated appointments in the 2005-06 Academic Year

Faculty	New Position	Location
Wayne Waguespach	Private Practice	Alabama
Claudio Natalini	Academia	Brazil

VCS Faculty Personnel appointed in the 2005-06 Academic Year

Frederick Gaschen	Associate Professor of Small Animal Medicine
Lorrie Gaschen	Associate Professor of Veterinary Radiology
Lauren Beebe	Visiting Instructor, Anesthesiology

HOUSE OFFICERS 2005-06

Interns

Dr. Tina A. Brown	Comp An Med & Sx
Dr. Emily S. Moore	Comp An Med & Sx
Dr. Adam Ginman	Comp An Med & Sx
Dr. Nicholas Moraites	Comp An Med & Sx
Dr. Cassandra Johnson	Equine Med & Sx
Dr. James E. Redmon III	Equine Med & Sx
Dr. Debbie Myers	Zoological Med

Residents

Dr. Vera A. Maeckelbergh	Small An Medicine
Dr. Heather P. Hoch	Small An Medicine
Dr. Paola Gianella	Small An Medicine
Dr. Joe Bernstein	Dermatology
Dr. Trina Bailey	Comp An Surgery
Dr. Catherine Briere	Comp An Surgery
Dr. Sunil Vasanjee	Comp An Surgery
Dr. Anderson daCunha	Anesthesiology
Dr. David Sanchez-Migallon Guzman	Zoological Med
Dr. Amanda Fulmer	Medical Oncology
Dr. Andrew Daters	Medical Oncology
Dr. Jose Len	Theriogenology
Dr. Britta Leise	Equine Surgery
Dr. Martin Vidal	Equine Surgery
Dr. Amy B. Snyder	Equine Practice

Fellows

Dr. Merrin A. Hicks	Comp An Surgery
Dr. Ann Chapman	Equine Medicine

SUMMARY OF ACCOMPLISHMENTS

EDUCATION

The faculty of the Department of Veterinary Clinical Sciences made the following scientific/CE presentations: 27 international; 95 national; 104 state and local; and 25 lay presentations.

International Outreach:

Dr. Olcott continued extension work in subsistence animal agriculture in Nicaragua and Russia. The cooperative residency in Companion Animal Medicine with the University of Bern continued with the training of Dr. Paola Gionella (Switzerland).

Faculty gave C.E. and scientific presentations in:

Argentina: Paccamonti
Australia: Hosgood
Bolivia: Olcott
Canada: Eades, McConnico, Moore, Stokes
France: Storey
Greece: Mitchell M
Mexico: Hedlund, Mauldin G, Senior
Morocco: Eades, Hubert, McConnico, Moore, Stokes
Nicaragua: Olcott
Russia: Olcott
United Kingdom: Tully

House Officer/Graduate Training:

Successful completion: 7 interns and 3 residents successfully completed their training in 2005-06. Of individuals completing their training at LSU: Three interns and one resident entered private practice; four interns and one fellow entered residency programs; one resident became an Assistant Professor of Surgery at the University of Prince Edward Island, one resident continued in a PhD program at LSU; and one resident continued training at the University of Bern.

Graduate Program Completions (2005)

M.S.:

Diane Wilson, DVM, MS. The influence of transdermally administered fenanyl on isoflurane requirements in normothermic and hypothermic dogs.

Maria Soledad Ferrer, DVM, MS. Post-breeding endometritis after low dose insemination in the mare.

Trina R. Bailey, BSc, DVM, MS. Urokinase and urokinase receptor in the urinary tract of the dog.

Blaine A. Burkert, BS, MS, BS, DVM, MS. Matrix metalloproteinase 3, matrix metalloproteinase 13 and tissue inhibitor of metalloproteinase 1 concentrations in normal and naturally-occurring osteoarthritic canine stifles.

Orlando Diaz-Figueroa, BS, DVM, MS. Characterizing the health status of the Louisiana gopher tortoise (*Gopherus polyphemus*).

RESEARCH AND OTHER ACADEMIC PRODUCTIVITY

Faculty, house officers and graduate students appeared as authors 126 times in 54 refereed publications; presented 64 oral scientific abstracts and 25 scientific posters; published one textbook and 34 book chapters; and published 77 proceedings articles, 20 lay articles and 20 other non-refereed articles.

Expenditures on Grants and Contracts:

<i>Externally Funded projects: (29)</i>	<i>\$332,737</i>
<i>GBI Funds</i>	<i>\$296,311</i>
<i>Internally Funded projects: (4)</i>	<i>\$17,967</i>
<i>Total funded research</i>	<i>\$647,015</i>

CLINICAL SERVICE

During 2005-06, VCS faculty attended 17,239 patients in the VTH&C for a gross revenue of \$5,305,171

Canine	10,799
Feline	2,136
Equine	2,216
Bovine	387
Ovine	38
Caprine	107
Porcine	51
Exotic An. & Avian	1,381

VCS faculty participated in rescue, shelter and veterinary care of animals in the aftermath of Hurricanes Katrina and Rita and received numerous honors and awards for their efforts.

FACULTY ACHIEVEMENTS

New Faculty

Frederic Gaschen

Associate Professor of Small Animal Medicine

Lorrie Gaschen
Lauren Beebe

Associate Professor of Veterinary Radiology
Visiting Instructor, Anesthesiology

Promotions

Marjorie S. Gill, DVM, MS. Professor of Food Animal Practice (05)
Jacqueline R. Davidson, DVM, MS, Clinical Professor of Veterinary Surgery (06)
Rebecca S. McConnico, DVM, PhD, Associate Professor of Equine Medicine (05)

Honors/Awards

Carol Foil

Gamma Sigma Delta Teacher Merit Honor Roll

Dennis French

Who=s Who among American Teachers
Recertified ABVP

Amy Grooters

Gamma Sigma Delta Teacher Merit Honor Roll

Giselle Hosgood

School of Veterinary Medicine, Distinguished Faculty Award

Bruce Olcott

University of Arkansas Extension Services and Goat Producers of Arkansas, Service Award

Gary Sod

School of Veterinary Medicine, Year 4, Teacher of the Year

Ashley Stokes

Leadership Greater Baton Rouge, Chamber of Commerce, Class of 2005

Eric Storey

Board Certification, American College of Veterinary Ophthalmologists

Keith Strickland

Pfizer, Carl J Norden, Distinguished Teacher Award

Changaram Venugopal

Distinguished Alumni Award, Kerala Veterinary College and Research Institute, Tichur, Kerala State, India.

Editorial Review Boards

Carol Foil

Veterinary Dermatology

Dennis French

Journal of Equine Veterinary Science

Amy Grooters

Journal of Veterinary Internal Medicine (Associate Editor)

Cheryl Hedlund

Advances in Small Animal Medicine and Surgery
Journal of the American Animal Hospital Association

Giselle Hosgood

Veterinary Surgery

Jeremy Hubert

Veterinary Surgery

Jill Johnson

Compendium for Continuing Education

Mandi Lopez

Veterinary Surgery
American Journal of Veterinary Research
Journal of the American Veterinary Medical Association

Glenna Mauldin

Journal of Veterinary Therapeutics
Advances in Small Animal Medicine and Surgery (Oncology Section)
Journal of Herpetological Medicine and Surgery
Journal of Feline Medicine and Surgery

Dennis McCurnin

Veterinary Practice News
Fancy Publications, Inc.
NAVC Clinician=s Brief

Mark Mitchell

Journal of Herpetological Medicine and Surgery (Scientific Editor)

Rustin Moore

Compendium of Continuing Education for the Practicing Veterinarian

David Senior

NAVC Clinician=s Brief

Joe Taboada

Journal of Veterinary Internal Medicine
Journal of the American Animal Hospital Association

Tom Tully

Journal of Exotic Pet Medicine (Co-Editor-in-Chief)
Journal of Avian Medicine and Surgery (Associate Editor)
Compendium on Continuing Education

Service Achievements

Mark Acierno

American College of Veterinary Internal Medicine
Credentials and Training Task Force

Susan Eades

American College of Veterinary Internal Medicine
General Examination Committee

Susan Eddlestone

Post-Katrina response and recovery
Executive Staff volunteer, Parker Coliseum Emergency Animal Shelter
Internet support to reunite owners and animals
Shelter support in affected areas

Louisiana State Veterinarian/SART Committee for Disaster Preparedness
Advisor

Spay Baton Rouge, Inc.
Spay Day coordinator

American College of Veterinary Internal Medicine
Chair, Infectious Disease Study Group Committee

Bruce Eilts

Faculty Club, Inc.
Member, Board of Governors

Carol Foil

Post-Katrina response and recovery
Executive Staff volunteer, Parker Coliseum Emergency Animal Shelter
Internet support to reunite owners and animals

Dennis French

Post-Katrina response and recovery
Lamar Dixon Expo Center volunteer
Hurricane Equine Rescue Operation, Head Veterinarian

LVMA
Walter J. Ernst, Jr. Foundation, Trustee
Immediate Past President
Chair, Convention Committee

AAVP
Immediate Past-President
Deputy Chair, Examination Committee

Amy Grooters

Post-Katrina response and recovery
VTHC support

Peter F. Haynes

House of Delegates, American Veterinary Medical Association

President=s Advisory Committee, American Association of Equine Practitioners
Chair, Professional Conduct and Ethics Committee, American Association of Equine Practitioners

Cheryl Hedlund

Secretary, Society of Soft Tissue Surgery

Jill Johnson

American College of Veterinary Internal Medicine
Foundation, Board of Directors

Mandi Lopez

American College of Veterinary Surgeons
Research Committee
Post-Katrina response and recovery
Volunteer, Parker Coliseum Emergency Animal Shelter

Glenna Mauldin

American College of Veterinary Internal Medicine (Oncology)
President
American College of Veterinary Nutrition
Residency Training Program Evaluation Committee

Rebecca McConnico

Member, USDA National Research Initiative Review Panel
Post-Katrina response and recovery
Lamar Dixon Expo Center volunteer
Hurricane Equine Rescue Operation, Hot-line Coordinator

Dennis McCurnin

Chair, Convention Management and Program Committee, American Veterinary Medical Association
Co-Manager, Louisiana Representation, Southwest Veterinary Symposium
Co-Chair, CE Committee, Southwest Veterinary Symposium

Sandra Merchant

National Federation of the Blind
Treasurer
Parents of Blind Children: Division of National Federation of the Blind, La. Chapter
President

National Federation of the Blind, Louisiana Chapter
Secretary
Glasgow Middle School, PTO
President
Post-Katrina response and recovery
Volunteer, Parker Coliseum Emergency Animal Shelter

Mark Mitchell

Association of Reptile and Amphibian Veterinarians
Education Committee
National Wildlife Rehabilitators Association
Chair, Scholarship Committee

Rustin Moore

American Association of Equine Practitioners
Equine research Coordination Group
Educational Programs Committee
Foundation Research Fellow Scholarship Committee
Foundation Research Committee
State Equine Emergency Network
Louisiana Veterinary Medical Association
Equine Committee

Post-Katrina response and recovery
Hurricane Equine Rescue Operation, Coordinator
Volunteer, Parker Coliseum Emergency Animal Shelter

Bruce Olcott

Louisiana Johnes Working Group
Chair
Post-Katrina response and recovery
Provided assistance to farmers

Dale Paccamonti

Post-Katrina response and recovery
Hurricane Equine Rescue Operation, Rescuer

David Senior

Conference Coordinator, North American Veterinary Conference
Post-Katrina response and recovery
Volunteer, Parker Coliseum Emergency Animal Shelter

Ashley Stokes

American Physiological Society
Cardiovascular Section Industry-Foundations Liaison Committee
Post-Katrina response and recovery
Hurricane Equine Rescue Operation, Volunteer

Joe Taboada

American College of Veterinary Internal Medicine
President

Tom Tully

Association of Avian Veterinarians
President
Conference Committee

REFEREED PUBLICATIONS

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Bauer RW, Gill MS, Poston RP, Kim DY. Naturally occurring Eastern equine encephalitis in a Hampshire wether. *Journal of Veterinary Diagnostic Investigation*, 17(3), 281-285, 2005.

Bradecamp EA, Lyle SK, Eilts BE, Paccamonti DL. Determination of the time of day of spontaneous ovulation in the mare. *Theriogenology*, 64:781,2005.

Bubenik L, Hosgood G, Vasanjee S. Bursting pressure of medium and large vessels after sealing with ultrasonic energy. *Vet Surg* 34(3):289-93, 2005.

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Chidambaram RM, Eades SC, Moore RM, Hosgood GL, Venugopal CS. Characterization of in the *in vitro* responses of equine cecal longitudinal smooth muscle to endothelin-1. *Am J Vet Res* 66:(7)1202-1208.

Chung, YH; Bateman HG 2nd, Williams, CC; Stanley, CC; Gantt, DT; Braud, TW; Southern, LL; Ward, JD, Hoyt, PG; Sod, GA: Effects of methionine and lysine on fermentation in vitro and in vivo, nutrient flow to the intestine, and milk production, *J. Dairy Sc.*, Accepted 2005.

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Diaz-Figueroa O, Mitchell MA, Poberts D, Kim DY, Diagnostic challenge: Peripheral nerve sheath tumor in a Savannah monitor. *Seminars in Avian and Exotic Pet Medicine* 14(1), 65-70, 2005.

Diaz-Figueroa O, Klarsfeld J, Mitchell MA, Maxit I. Health status and conservation of the Louisiana gopher tortoise, *Gopherus polyphemus*. *Reptilia*: 41, August 2005, 66-72.

Eilts BE, Davidson AP, Hosgood G, Paccamonti DL, Baker DG. Factors affecting gestation duration in the bitch. *Theriogenology*, 64:242-251, 2005.

Eilts BE. Theoretical aspects of canine semen cryopreservation. *Theriogenology*, 64(3):692-7, 2005.

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64(3):685-91, 2005.

Feigin K, Labato MA, Acierno MJ. A challenging case: A German Shepherd with a decreasing appetite and azotemia. *Veterinary Medicine* 101(2): 94-102, 2006.

Ferrer MS, Lyle SK, Eilts BE, Godke RA, Paccamonti DL, Post-mating endometritis after low dose hysteroscopic insemination in the mare. *Theriogenology* 64:784, 2005.

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Heatley JJ, Mauldin GE and Cho DY. A review of neoplasia in the captive African hedgehog (*Atelerix albiventris*). *Seminars in Avian and Exotic Pet Medicine.* 14:182-192, 2005.

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Kim DY, Mauldin GE, Hosgood G and Cho DY. Perianal malignant melanoma in a dog. *Journal of Veterinary Internal Medicine.* 19:610-612, 2005.

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LeBlanc CJ, Bauer JE, Hosgood G and Mauldin GE. Effect of dietary fish oil and vitamin E supplementation on hematological and serum biochemical analytes and oxidative status in young dogs. *Veterinary Therapeutics.* 6(4):315-330, 2005.

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Mayer J, Knoll J, Innis C, Mitchell MA. Characterizing the hematologic and plasma chemistry profiles of captive Chinese water dragons (*Physignathus concincinus*). *J Herp Med Surg* 15(3): 45-52, 2005.

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SCIENTIFIC ABSTRACTS

Oral Presentations:

Aguilar R, Hammond E, Mitchell MA, Arcement C, Garner M, Delahunta A. Enter the dragon 2: Acute tetraparesis associated with suspected cervical vertebral instability in an adult male Komodo dragon (*Varanus komodensis*). Proceedings of the Association of Zoo Veterinarians. Omaha, NE, Aug 2005.

Allender M, Mitchell MA, Phillips C, Beasley V. Health assessment and disease survey in the eastern massasauga rattlesnake (*Sistrurus catenatus catenatus*) in Illinois. Proceedings of the Association of Reptilian and Amphibian Veterinarians, Phoenix, AZ, May 2005, pp 34-35

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Diaz-Figueroa O, Klarsfeld J, Mitchell MA, Maxit I. Health status and conservation of the Louisiana Gopher tortoise, *Gopherus polyphemus*. Reptilia: 41, August 2005, pp 66-72.

Eddlestone SM. Failure of imidocarb dipropionate to clear experimentally induced *Ehrlichia canis* infection in dogs. Proc. 22nd Annual American College of Veterinary Internal Medicine Forum. Baltimore, MD. Jun 2005.

French DD. Two months of triage; Unexpected stressors in disaster management. Music City Veterinary Conference proceedings. Nashville, TN. Mar 2006.

Grooters AM. Deep fungal infections. Proc. 22nd Annual American College of Veterinary Internal Medicine Forum. Baltimore, MD. Jun 2005.

Hedlund CS. Trachea: Tracheal diseases and surgical approach; Pharynx: Diseases and surgery. Proc. 30th World Small Animal Veterinary Congress-CD. 2005.

Mitchell MA. Final report: Evaluating the role of dietary supplementation on iron absorption in the Atlantic bottlenose dolphin (*Tursiops truncatus*). Final report IMMS: Task Aug 2005.

Mitchell MA. Husbandry and dietary considerations for captive raptors. Ark-LA-Tex AALAS Annual Conference, New Orleans, LA. Mar 2005.

Mitchell MA. Biology and medicine of tortoises, What's your diagnosis: Reptile cases, Emergency medicine for rabbits and ferrets, Avian gastroenterology, Exotic animal clinical

pathology. Introduction to reptilian diagnostic testing. Midwest Exotic Animal Symposium, Kansas State University, Manhattan, KS, Nov 2005.

Mitchell MA. Reptile dermatology. Proceedings of the 20th Annual congress of the ECVD-EVSD. Chaldiki, Greece, Sep 2005, pp 76-78.

Nevarez JG. Small mammal nutrition. Biology and medicine of domestic rabbits. Biology and medicine of Ferrets. Biology and medicine of novel small exotic mammals. Proceedings of the AVMA Conference. Minneapolis, Minnesota. Jul 2005.

Paccamonti DL. The infertile mare: Persistent mating induced endometritis; Management of the mare's estrous cycle; The periparturient mare: Diagnosis and treatment of placentitis, examination of the placenta, evaluating readiness for birth and inducing parturition; Reproductive pathology of the mare from a clinical perspective. Proc. Novenas Jornadas Veterinarias en Medicina Equina, Buenos Aires, Argentina, Aug 2005.

Paccamonti DL. Fresh cooled semen preparation. Lab Handout, Proc. Southwest Veterinary Symosum, Fort Worth, TX, Sep. 2005.

Paccamonti DL. Reproduction physiology of the late gestation mare. Havemeyer Foundation Workshop: Uterine Infection in Mares and Women: A Comparative Study II.. Hilton Head, SC, Nov 2005 pp.

Paccamonti DL. The infertile mare I: Abnormal conditions of the uterus and ovaries; The infertile mare II: Endometrial biopsy and cytology; Control of the estrous cycle; Uterine clearance: Factors to consider to improve treatment outcome. Proc. Southwest Veterinary Symposium, Fort Worth, TX, Sep. 2005.

Senior DF: Urinary tract infection; Clinical significance of proteinuria; Progression of renal disease; Update on feline lower urinary tract disease; Rigid endoscopy workshop. World Small Animal Veterinary Association Congress, Mexico. May 05, on CD.

Stokes AM. The pathophysiology of acute laminitis. Proceedings II Simposio Internacional do Cavalo Atleta; IV-Semana do Cavalo, pp 83, 2005.

Strickland KN. T-wave alternans. Proc. 22nd Annual American College of Veterinary Internal Medicine Forum. Baltimore, MD. Jun 2005.

Strickland KN. Canine dilated cardiomyopathy; Chronic canine valvular disease; Case Studies: Echocardiography; Congestive heart failure. Proc. American Animal Hospital Association. Baltimore, MD. Mar 2005.

Tully TN. Avian ophthalmology; Avian oncology; Avian surgical equipment and instrumentation: Diagnosis and treatment options. Pet bird bandaging techniques. 78th Western Veterinary Conference. Las Vegas, NV, Feb 2006. CD.

Tully TN. Diagnostic sampling in birds - the art of collection; Capture, handling and grooming the avian patient. Japanese Technician Proceedings. 52nd Annual Meeting Hawaii VMA, Honolulu, HI, Nov 2005.

Tully TN. Avian diagnostic testing. Proceedings. Common avian disease presentations. 52nd Annual Meeting Hawaii VMA Honolulu, HI, Nov 2005.

Tully TN. Avian anesthesia and supportive care; Avian diagnostic imaging. Japanese Proceedings. 52nd Annual Meeting Hawaii VMA, Honolulu, HI, Nov 2005.

Tully TN. Catching, handling and grooming the avian patient. Diagnostic sampling in birds: the art of collection. Nursing proceedings. British Small Animal Veterinary Association, 48th Annual Congress, Birmingham, UK Apr 2005.

Tully TN, Stevens A, Diaz O, Mitchell MA. A noninvasive corrective technique for manipulation of deviated beaks using a quick drying dental composite. Proceedings 8th European Association of Avian Veterinarians Conference, Aries, France, Apr 2005.

Tully TN. Avian respiratory disease. Diagnostic testing in avian practice. pp 191-192; *Chlamydophila psittaci*: updates and realities. pp 195-197; Tully TN. Ophthalmological manifestations of systemic disease. pp 197-199. British Small Animal Veterinary Association, 48th Annual Congress, Birmingham, UK. Apr 2005.

LAY PUBLICATIONS

Burba Dan J. Silicone to lube joints? The Horse. 2005;06:52-54.

Burba DJ, Bolt DM. Analgesic effects of shock wave treatment. Equus. 2005;512:63-64.

French DD. Lower limb care and maintenance. North Louisiana 4H Horse camp, Monroe, LA. Mar 2005.

French DD. Gastrointestinal health and evaluation. SW Louisiana 4H Horse camp, Lake Charles, LA. Mar 2005.

French DD. Dental evaluation and care. North Louisiana 4H Horse camp, Monroe, LA. Mar 2005.

French DD. Topics of horse health. Iberia Master Horseman Clinic, New Iberia, LA. Mar 2005.

Lyle SK. Breeding for early foals. Louisiana Horse, 23(5) 51-53, 2005.

Lyle SK. Breeding for early foals. Off Course, 1-13, Jan/Feb 2006.

Mitchell MA. Newsletter of the Wildlife Hospital of Louisiana. Spring 2005 pp. 8.

Mitchell MA. Newsletter of the Wildlife Hospital of Louisiana. Summer 2005 pp. 8

Mitchell MA. Newsletter of the Wildlife Hospital of Louisiana. Fall 2005 pp.12

Nevarez JG. Summary of clinical diseases affecting the Louisiana alligator industry. LA Dept. Wildlife and Fisheries, Alligator and Fur Council Meeting. Baton Rouge, LA. Feb 2006.

Nevarez JG. Veterinary role in the Louisiana alligator industry: Research and clinical cases. LA. Dept. Wildlife and Fisheries, Alligator and Fur Council Meeting. Baton Rouge, LA. Mar 2005.

Olcott BM; Health programs for goats. Proc. South Central Goat Producers. Conway, Arkansas. Jan, AK. 2006.

Olcott B, Dupree D, Reproduction in water buffalo Part 1: Reproductive Physiology. International Animal Health Newsletter. Dec 2005 pp 9-10.

Pierce LB, Delaup M, Copeland S, Marcus K, Voliva A, Chapman A, Moore RM: Feeding practices can be useful to preventing disease in your horse: Part II. Animal Magazine 2 (4) 14-17, 2005.

Tully TN. Cage maintenance and appropriate care of a home aviary. Hartz Exotic Health, 4(2):5-7, 2005.

Tully TN. Probiotic supplements: Almost as nature intended: Bird Talk Magazine. 23(10), 16-18.

Tully TN. Emu parasites. American Emu Association Newsletter. 14(2) 2004.2-3.

Tully TN. Introduction to bird fair booklet. Bird Care South Alabama Cage Bird Society, Inc Bird Care Booklet. Jul 2005.

OTHER PUBLICATIONS:

Acierno MJ, Labato MA. Hypertension in the renal failure patient. Clinical Techniques in Small Animal Practice. 20:23-30, 2005.

Bubenik LJ. Indications for endoscopy in small animal practice. Veterinary Practice News. 17(11):16-17, 2005.

Foil, CS. Who makes a good volunteer in times of disaster, *Veterinary Economics*.

Hedlund CS: Annotation on cutaneous wound healing. *Advances in Small Animal Medicine and Surgery* 18(9):8, 2005

Hedlund CS. Annotation on perineal hernia. *Advances in Small Animal Medicine and Surgery* 18(7):6-7, 2005.

Hedlund CS: Annotation on esophagectomy. *Advances in Small Animal Medicine and Surgery* 18(6):8, 2005.

Hedlund CS: Annotation on gallbladder mucocele. *Advances in Small Animal Medicine and Surgery* 18(5):8, 2005.

Hedlund CS: Annotation on pericardectomy with chylothorax. *Advances in Small Animal Medicine and Surgery* 18(3):8, 2005.

Hedlund CS: Annotation on urethrostomy. *Advances in Small Animal Medicine and Surgery* 18(2):8, 2005.

Mauldin GE. Doxorubicin for canine hemangiosarcoma. (annotation) *Advances in Small Animal Medicine and Surgery*. 19(2):6, 2006.

Mauldin GE. Radiation therapy-induced bone sarcomas. (annotation). *Advances in Small Animal Medicine and Surgery*. 18(12):7-8, 2005.

Mauldin GE. Dose intensified doxorubicin protocol for hemangiosarcoma. (annotation). *Advances in Small Animal Medicine and Surgery*. 18(12):8, 2005.

Mauldin GE. Chemotherapy and half-body radiation for lymphoma. (annotation). *Advances in Small Animal Medicine and Surgery*. 18(12):8, 2005.

Mauldin GE. Body condition and weight in dogs with cancer. (annotation). *Advances in Small Animal Medicine and Surgery*. 18(10):7, 2005.

Mauldin GE. Pulmonary metastatectomy for hypertrophic osteopathy. (annotation). *Advances in Small Animal Medicine and Surgery*. 18(9):7-8.

Mauldin GE. Postsurgical combination radiation and chemotherapy for anal sac adenocarcinoma. (annotation). *Advances in Small Animal Medicine and Surgery*. 18(8):6-7, 2005.

Mauldin GE. Paclitaxel chemotherapy in dogs. (annotation). *Advances in Small Animal Medicine*

and Surgery. 18(6):7-8, 2005.

Mauldin GE. Hepatotoxicity associated with CCNU (lomustine). (annotation). *Advances in Small Animal Medicine and Surgery*. 18(4):7-8, 2005.

McCurnin DM: Change or perish: The teaching hospital dilemma. *Veterinary Practice News*. 17-8: 4, 2005.

McCurnin DM: Efficiency: The key to financial freedom. *Veterinary Practice News*. 18-1: 2-4, 2006.

GRANT PROPOSALS SUBMITTED

EXTERNAL PROPOSALS

Eades S. A multifaceted approach to investigate the pathophysiology of equine laminitis. United States Department of Agriculture. \$374,999.

Eades S. A multidisciplinary, mechanistic, and therapeutic approach to the pathophysiology of equine laminitis. Morris Animal Foundation Consortium Grant. \$540,000/year for 5 years.

Gimble JM, Lopez MJ, Use of adipose stem cells to treat pre-clinical large animal Krabbe Disease, National Institutes of Health-NIAMS R01: \$1,837,500.

Gimble JM, Johnson JR, Moore RM, Stokes A, Vidal M. Adipose-derived stem cell treatment in a preclinical Small vessel injury model, STTR Phase I, NIH: Heart/Lung, Diabetes, General Medicine, and Aging Institutes, \$100,000.

Gimble JM, Harman R, Johnson J, Moore RM, Stokes AM, Vidal M. Adipose-derived stem cell treatment in a preclinical small vessel injury model. NIH Small Business Technology Transfer (STTR) Grants, Jul 2005. \$100,000.

Hedlund, CS. Comparison of postoperative pain, biochemical stress response and biomechanical properties of laparoscopic and open abdominal gastropexy. To Tyco Kendall Healthcare (\$13,829) & ACVS Research Grant Programs (\$20,000).

Lopez MJ. Pulsed monopolar radiofrequency energy to reduce joint pain and inflammation in a canine model. Energex Systems, Inc. \$99,870.

Lopez M, Burba DJ, A novel method to treat equine bone spavin. Grayson-Jockey Club Research Foundation. \$14,507.

Lopez M. Association of the COL2A1 gene with canine premature degenerative hip osteopathy. Morris Animal Foundation. \$8,100.

Lopez M. A novel method to treat equine bone spavin. Grayson-Jockey Club Research Foundation. \$14,507.

Lopez M. Coordinating horses with therapeutic riding needs through kinesiology. National Science Foundation. \$1,263,601.

Lopez M. Novel treatment for phalangeal extensor tendon elongation injuries, National Institutes of Health-NIAMS, R03. \$214,437.

Lopez M. Quantification of osteoprotegerin and receptor activator of nuclear factor kB ligand expression in normal and osteoarthritic canine coxofemoral articular cartilage. Veterinary Orthopedic Research Society. \$10,000.

Lopez M. Quantification of osteoprotegerin and receptor activator of nuclear factor kB ligand expression in normal and osteoarthritic canine coxofemoral articular cartilage. Collie Health Foundation \$10,000.

Lopez M. The roles of osteoprotegerin and receptor activator of nuclear factor kappa beta ligand in

age related hip osteoarthritis. American Federation for Aging Research. \$60,000.

Lopez M. Age dependent cytokin and matrix interaction in normal and arthritic cartilage. National Institutes of Health-NIA, R21. \$294,000.

Lopez M. Advancement of therapeutic riding through kinesiology. Edward Mallinckrodt, Jr, Foundation. \$143,802.

Lopez MJ. Coordination of Peruvian pasos with therapeutic riding needs through kinesiology, Paso Fino Horse Association. \$86,800.

Maeckelbergh, VA, Acierno MJ. Comparison of clotting times collected via intravenous catheter versus direct venipuncture in dogs. Waltham Foundation. \$6,000.

Moore RM, Stokes AM, Eades SC, Johnson JR. A multifaceted approach to investigate the pathophysiology of equine laminitis. USDA-NRICGP, Dec 2005. \$375,000.

Moore RM, Stokes AM, Eades SC, Johnson JR. A multifaceted approach to investigate the pathophysiology of equine laminitis. USDA-NRICGP. Dec 2005.

Moore RM, USDA-NRI A unifying hypothesis of the pathophysiology of equine acute laminitis: A multifaceted approach. \$350,000.

Natalini CC, Kousoulas KG, Linardi RL, Stokes AM. Multi-drug resistance (MDR-1) gene identification and its regulatory effect of methadone in horses US Equestrian, May 2005. \$23,672.

Redig P, Tully TN, Ritchie B. Comparison of the efficacy of three vaccines for West Nile virus in birds. Morris Animal Foundation. Apr 2005. \$21,338.

Stokes AM, Eades SC, Moore RM. Load and thermal effects on equine digital hemodynamics measured using microspheres. Morris Animal Foundation. Oct 2005. \$51,099.

Storey ES, Downs JC, Burgoyne CF. Diode laser induced model of canine glaucoma. American Health Assistance Foundation. \$45,013.

Swiderski C, Burgess S, Rashmir-Raven A, Johnson J, Costa LRR. Proteomic analysis of hyperelastosis cutis (HC): A means to identify the genetic defect. Mark Morris Foundation, \$94,894.

Swiderski C, Burgess S, Rashmir-Raven, A, Johnson J, Brashier M, Jack SQ, Nelson P, May M. Deep dermal proteomic patterns for detection of equine hyperelastosis cutis. American College of Veterinary Internal Medicine Foundation, \$20,000.

Swiderski C, Burgess S, Johnson J, Rashmir A, Costa LRR. Proteomics of hyperelastosis cutis: a means to identify and develop a test for the genetic defect. American Quarter Horse Association, \$101,996

Tully TN. Establishing and maintaining a scientific research colony of Hispaniolan Amazon parrots. Kaytee Avian Foundation. Feb 2006. \$7000.

Tully TN, Mitchell MA, Senior D. Zoological Medicine grant Greater Baton Rouge Zoo. \$10,000.

Tully TN. Veterinary services for the Louisiana alligator industry. Louisiana Dept. Of Wildlife and Fisheries. Feb 2006, \$79,800.

Venugopal CS, Moore RM, Chirgwin SR, Kousoulas KG. Mechanism of endothelin-induced airway hyperreactivity. National Institute of Health, Jun 2005. \$1,176,000.

Voyiadjis G, Lopez MJ. (Investigation/development of bone adaptation behavior to smart Structural/mechanical system with minimal constraints. National Science Foundation. \$325,908.

INTERNAL PROPOSALS

Briere C, Hedlund CS. Dexamethasone and carprofen compromise the integrity and increase the permeability of the colonic mucosa of dogs *in vitro*. SVM Blass Fund (\$2,500).

Bubenik LJ, Hosgood G: Pharmacokinetics of bupivacaine after single dose and continuous intra-articular infusion in dogs. VTH&C CORP Funds. \$10,000.

Cardinale JP, Stokes AM. The expression of the inflammatory-related gene IL-8 (chemotaxis) in equine laminitis. Louisiana Biomedical Research Network Summer Undergraduate Research Program. Mar 2005. \$5,000.

Chirgwin SR, Stokes AM, DeRosa AA, Moore RM. Transcriptional changes associated with equine laminitis: potential identification of disease mediators. Louisiana State University, School of Veterinary Medicine, Equine Health Studies Program. Jul 2005. \$22,364.

Da Cunha AF, Moore RM, Pettifer G, Stokes AM, Chirgwin SR. Identification of the equine transient receptor channel, vanilloid subfamily member 1 (TRPV1) receptor: Gene sequencing, quantification and immunohistochemistry. The beginning of a novel pain management strategy for orthopedic disease in horses. Louisiana State University, School of Veterinary Medicine, Equine Health Studies Program. May 2005. \$5,853.

Eddlestone SM, DiTusa S. Spay Baton Rouge/LSU Animal Sterilization Assistance Program (ASAP). LSU-SVM. \$7,500.

Ferrer MS, Paccamonti DL, Eilts B, Lyle S, Al Jarrah A. Effect of insemination site on endometrial inflammatory response in mare with delayed uterine clearance. SVM CORPS, \$2,627.

French, DD. Strategies for enhancing cow comfort on southern dairies. McCormick, French, Schilling, Owens, and Gillespie. LAES \$20,000.

Hanly BK, Stokes AM, Johnson JR. Equine hoof laminae tissue collection via biopsy. Merck/NIH-BREVS - SVM Summer Research Program. Feb 2006. \$5,000.

Holliday J, Lopez MJ. Osteoprotegerin and receptor activator for Nuclear Factor kB expression in normal and dysplastic canine coxofemoral joint articular cartilage, Merck-Merial Scholars Program \$5,000.

Leise BS, Eades SC, O'Reilly K, Moore RM: Temporal changes of tumor necrosis factor α , interleukin-6 and interleukin-8 in digital and jugular venous serum from horses during carbohydrate-overload experimentally induced laminitis. LSU Equine Health Studies Program, May 2006. \$6,000.

Liford J, Lyle SK, Paccamonti DL, Stokes AM, Chirgwin SR. Expression of cyclooxygenase-1 and -2 in a model of ascending placentitis in the mare. Merck/NIH-BREVS - SVM Summer Research Program. Feb 2005. \$5,000.

Lopez M. Association of COL2A1 gene with canine premature degenerative hip osteopathy. VCS Organized Research Fund \$4,000.

Lopez M. A novel method to facilitate distal tarsal ankylosis for treatment of equine bone spavin, LSU Equine Health Studies Program. \$10,500.

Lopez, M. LSU Faculty Research Grant Program (Scientific Colloquium of Scientific Researchers, \$10,800).

Lyle SK, Paccamonti DL. Chronic catheterization of the allantoic cavity by the use of laparoscopy. EHSP, \$3000.

McGeachy ML, Stokes AM. Expression of inflammatory-related genes in the liver from healthy and laminitic horses. HHMI Summer Undergraduate Research Program. Feb 2006. \$3,200.

McGeachy ML, Stokes AM. Expression of inflammatory-related genes in the liver from healthy and laminitic horses. Louisiana Biomedical Research Network Summer Undergraduate

Research Program. Feb 2006. \$5,000.

Moore RM, Peiro JR, Stokes AM, Dietrich M: Modulation of toll-like receptors and cytokines during endotoxemia in horses using *ex vivo* and *in vivo* models. LSU Equine Health Studies Program, May 2006. \$12,000.

Murphy, MC. Lopez, MJ. Measurement of skeletal kinematics. LSU Faculty Research Program MEMS. \$10,000.

Natalini CC, Barker SA, Linardi RL, Stokes AM, Bueno ACD. Pharmacokinetics and pharmacodynamics of oral methadone administration in horses Louisiana State University, School of Veterinary Medicine, Veterinary Clinical Sciences. Jul 2005. \$4,500.

Natalini CC, Kousoulas Kg, Linardi RL, Stokes AM. Multi-drug resistance (MCR1) gene identification and its regulatory effect of drugs in horses. Louisiana State University, School of Veterinary Medicine, Equine Health Studies Program. Jul 2005. \$11,939.

Stokes AM, Linardi RL, Barker SA, Lopez MJ, Moore RM: Clinical effects, pharmacokinetics and pharmacodynamics of methadone administered orally to horses with pain induced using modified shoes. LSU Equine Health Studies Program, May 2006. \$12,000.

Strickland KN. Endothelin-1 in Doberman Pinschers with and without dilated cardiomyopathy. Merck-Merial Animal Health Scholars Program. Louisiana State University, School of Veterinary Medicine. Feb 2005. \$5,000.

Strickland KN. Doppler tissue imaging characterization of subvalvular aortic stenosis, chronic primary mitral regurgitation and idiopathic dilated cardiomyopathy. Merck-Merial Animal Health Scholars Program. Louisiana State University, School of Veterinary Medicine. Feb 2005. \$5,000.

Venugopal CS, Mendes L, Piero JR, Stokes AM, Moore RM: Transcriptional changes associated with equine recurrent airway obstruction. LSU Equine Health Studies Program, May 2006. \$12,000.

GRANT PROPOSALS AWARDED

EXTERNAL PROPOSALS

Dupree D, Olcott BM; Samara Training Center: Update for Veterinarians in Surgery and Medicine \$15,000.

Dupree, D, Olcott BM; Parasite control programs for sheep in the Mary region of

Turkmenistan. \$15,000.

Dupree D, Olcott BM; D. Dupree, B. Olcott A: Anthelmintic resistance in Nicaraguan goats. Winrock/USAID. \$15,000.

Dupree D, Olcott BM; Ryzan State Agricultural Academy, Dairy production/swine production Curriculum evaluation \$15,000.

Eddlestone SM, DiTusa S. Spay Baton Rouge/LSU ASAP. Nestle Purina PetCare Company. \$7,500.

Edwards P, Mitchell MA. Wildlife Hospital of Louisiana conservation education program. Pennington foundation Grant. \$5,000.

Foil L, Mascari T, Routon E, Mitchell MA. Development of novel techniques for targeted control of phlebotomine flies. Department of Defense: \$310,430.

Johnson JR, Vidal MA, Gimble JM, Moore RM, Lopez MJ. Characterization of equine marrow stromal cells. Grayson-Jockey Club Research Foundations, Inc. \$17,432.

Mitchell MA. Evaluating the efficacy of various microbicides to control Salmonella in turtle eggs. LA Dept. Agriculture. \$40,000.

Moore RM, Stokes A, Lopez M, Burba DJ, Hubert JD. Integration of biomechanics into equine and comparative biomechanical and orthopedic research. BOR Enhancement Grant \$170,000.

Nevarez J, Mitchell MA, Foster T, Kosouas G, Kinsler N, Elsey R, Garner M Screening American alligators (*Alligator mississippiensis*) with Lymphohistiocytic Proliferative Syndrome of Alligators (LPSA) for herpes viruses. Louisiana of Wildlife and Fisheries: \$21,926.

Nevarez J, Mitchell MA, Kinsler N, Elsey R, Garner M. Determining the infectivity of lymphohistiocytic proliferative syndrome (LPSA) in American alligators (*Alligator mississippiensis*). Louisiana Department of Wildlife and Fisheries: \$31,576.

Nevarez J. Determining the relationship between West Nile virus and Lymphohistiocytic Proliferative Syndrome of Alligators. Louisiana Dept. Of Wildlife and Fisheries. 2005, \$38,000.

Olcott BM. Curriculum Development, Primorsky State Academy. Improving dairy cow production in eastern Russia ACDI/VOCA/USAID \$15,000.

Olcott BM, Dupree D; Curriculum development veterinary medicine and surgery at the St Petersburg State Agrarian University Academie Russia ACDI/VOCA/USAID \$15,000.

Olcott BM, Dupree, D: Improved productivity of sheep in the Mary region of Turkmenistan. Winrock/USAID \$15,000.

Olcott BM, Dupree D: Swine production and control of coenurosis in Nicaragua. Winrock/USAID. \$15,000.

Olcott BM, Dupree D; Novokurovskoye Agricultural Institute Improving Dairy production in the Samara Region. ACDI/VOCA,USAID \$15,000.

Stokes AM, Eades SC, Moore RM. Load and thermal effects on equine digital hemodynamics measured using microspheres. Morris Animal Foundation. Oct 2005. \$51,099.

Tully TN. Avian research. Gulf South Bird Club. \$500.

INTERNAL PROPOSALS

Acierno M, Mitchell MA, Tully TN, Smith J. Evaluation of indirect blood pressure measurement techniques (Doppler) and the comparison of point of care blood gas analyzer (I-STAT) values with laboratory determined values in the anesthetized *Amazona ventralis*. \$2000 self funded.

Bondioli R, Godke R, Denniston, B. Olcott. Effects of early nutritional environment on development of swine embryo's and placenta's. USDA \$25,000.

Briere C, Hedlund CS. Dexamethasone and carprofen compromise the integrity and increase the permeability of the colonic mucosa of dogs in vitro. SVM Blass Fund (\$2,500).

Bubenik LJ, Hosgood G: Pharmacokinetics of bupivacaine after single dose and continuous intra-articular infusion in dogs. VTH&C CORP Funds. \$10,000.

Cardinale JP, Stokes AM. The expression of the inflammatory-related gene IL-8 (chemotaxis) in equine laminitis. Louisiana Biomedical Research Network Summer Undergraduate Research Program. Mar 2005. \$5,000.

Chirgwin SR, Stokes AM, DeRosa AA, Moore RM. Transcriptional changes associated with equine laminitis: potential identification of disease mediators. Louisiana State University, School of Veterinary Medicine, Equine Health Studies Program. Jul 2005. \$22,364.

Da Cunha AF, Moore RM, Pettifer G, Stokes AM, Chirgwin SR. Identification of the equine transient receptor channel, vanilloid subfamily member 1 (TRPV1) receptor: Gene sequencing quantification and immunohistochemistry. The beginning of a novel pain management strategy for orthopedic disease in horses. Louisiana State University, School of Veterinary Medicine, Equine Health Studies Program. May 2005. \$5,853.

Fahrig BM, Mitchell MA, Eilts BE, Paccamonti DL, Lock B, Characterization and cooled storage of semen from corn snakes (*Elaphe guttata*). Merck-Merial Research Scholar Award. \$5,500.

Fahrig B, Mitchell MA, Paccamonti D, Eilts B. Collection, characterization, and cryopreservation of spermatozoa from various reptiles. Merck-Merial, Summer Research Program \$5,000.

Goss C, Olcott B. Survey of parasites in Ethiopia. LSU International Fund. \$2,000.

Hanly BK, Stokes AM, Johnson JR. Equine hoof laminae tissue collection via biopsy. Merck/NIH-BREVS - SVM Summer Research Program. Feb 2006. \$5,000.

Holliday J. Osteoprotegerin and receptor activator for Nuclear Factor kb expression in normal and dysplastic canine coxofemoral joint articular cartilage. Merck-Merial Scholar's Program. \$5,000.

Homberger DG, Tully TN, Roundtree L, Sanchez Guzman D, Determining individual characteristics of submaxillary beak ridges in Hispaniolan Amazon parrots. \$1000 self funded.

Lea M, Joseph W, Olcott B. Voluntary Johne's disease control program. USDA \$45,000.

Liford J, Lyle SK, Paccamonti AM, Chirgwin SR. Expression of cyclooxygenase-1 and -2 in a model of ascending placentitis in the mare. Merck-Merial Research Scholar Award. \$5,500.

Liford J, Lyle SK, Paccamonti DL, Stokes AM, Chirgwin SR. Expression of cyclooxygenase-1 and -2 in a model of ascending placentitis in the mare. Merck/NIH-BREVS - SVM Summer Research Program. Feb 2005. \$5,000.

Lopez MJ, Burba, DJ. A novel method to facilitate distal tarsal ankylosis for treatment of equine bone spavin. LSU Equine Health Studies Program \$10,500.

Lopez MJ. Association of COL2A1 gene with canine premature degenerative hip osteopathy, VCS Organized Research Fund \$4,000.

Mocklin CM, Paccamonti DL, Eilts BE, Lyle SK. Effect of post-ovulatory PGF on plasma progesterone concentration in the mare. Merck-Merial Research Scholar Award. \$5,500.

Natalini CC, Kousoulas KG, Linardi RL, Stokes AM. Multi-drug resistance (MCR 1) gene identification and its regulatory effect of drugs in horses. Louisiana State University, School of Veterinary Medicine, Equine Health Studies Program. Jul 2005. \$11,939.

Natalini CC, Barker SA, Linardi RL, Stokes AM, Bueno ACD. Pharmacokinetics and pharmacodynamics of oral methadone administration in horses. Louisiana State University, School of Veterinary Medicine, Veterinary Clinical Sciences. Jul 2005. \$4,500.

Rowntree J, Olcott B, Gentry G. The influence of trace mineral status and mineral supplementation on cow and calf production. USDA Formula Funds. \$25,000.

Storey ES, Down JC, Burgoyne CF. Diode laser induced model of canine glaucoma. VCS Corp Grant. \$ 4000.

Strickland KN. Endothelin-1 in Doberman Pinschers with and without dilated cardiomyopathy. Merck-Merial Animal Health Scholars Program. Louisiana State University School of Veterinary Medicine. Feb 2005. \$5,000.

Venugopal CS, Beadle RE, Moore RM: Role of vanilloid receptors in summer pasture-associated obstructive pulmonary disease in horses. LSU Equine Health Studies Program, May 2005. \$10,400.

CONTINUING EDUCATION

March 1, 2005 to February 28, 2006

VCS faculty made 27 presentations at international meetings, 95 presentations at national meetings, 104 presentations at the state and local level, and 25 lay and animal industry presentations.

CONTINUING EDUCATION PRESENTATIONS

International:

Burba, Daniel

Management of degloving injuries in horses; Management of hoof injuries-from the initial wound to the corrective shoeing; Management of wounds of the distal limb complicated by involvement of deep structures. NAVC Conference. Orlando, FL. Jan, 2006.

Davidson, Jacqueline

Acupuncture analgesia; Physical therapy for pain management. American Veterinary Medical Association Annual Convention/World Veterinary Congress/International Veterinary Academy of Pain Management, Minneapolis, MN. Jul 2005.

Hedlund, Cheryl

Trachea: Tracheal diseases and surgical approach; Pharynx: Diseases and surgery. 30th World Small Animal Veterinary Congress, 2nd Iberoamerican Congress Federacion Iberoamericana de Asociaciones Veterinarias de Animales de Compania, 26th National Congress Asociacion Mexicana De Medicos Veterinarios Especialistas en Pequeñas Especies A.C., Mexico City, Mexico, May 2005.

Lopez, Mandi

The use of monopolar radiofrequency energy to shrink stretched phalangeal extensor tendons. Orthopaedic Research Society. Washington, D.C., Mar 2005.

McConnico Rebecca

McConnico RS, Moore RM, Hubert JD. Right dorsal colonic pathophysiology in horses administered phenylbutazone. Proceedings of the 9th Congress of the World Equine Veterinary Association, Marrakesh, Morocco, Jan 2006.

Mitchell, Mark

Determining the prevalence of Salmonella in free-ranging Mediterranean house geckos in Louisiana; Characterizing hematologic and plasma biochemistry values for captive Mali uromastix, *Uromastix maliensis*; Metastatic fibrosarcoma in a bearded dragon, *Pogona vitticeps*; Cholangiocellular carcinoma in an Indonesian white tree frog, *Litoria caerulea*.

Association of Reptilian and Amphibian Veterinarians 12th Annual Conference, Phoenix, AZ, May 2005.

Reptile dermatology: 20th Annual congress of the ECVD-ESVD. Chaldiki, Greece, Sep 2005.

Paccamonti, Dale

Reproductive physiology of the late gestation mare. Havemeyer Foundation Workshop: Uterine Infection in Mares and Women: A Comparative Study II. Hilton Head, SC. Nov 2005.

Senior, David

Urinary tract infection; Clinical significance of proteinuria; Progression of renal disease; Update on feline lower urinary tract disease; Rigid endoscope workshop. World Small Animal Veterinary Association Congress, City, Mexico. May 05.

Hurricane disaster response: Are you ready? Establishment of an emergency animal shelter: Lessons from Katrina; Gulf Coast hurricane response: What did we learn? North American Veterinary Conference, Orlando, FL, Jan 06.

Tully Tom

Avian anesthesia and supportive care; Avian diagnostic imaging; Diagnostic sampling in birds - the art of collection; Capture, handling and grooming the avian patient. 52nd Annual Meeting Hawaii VMA, Honolulu, HI. Nov 2005.

National:

Burba, Daniel

Equine nuclear scintigraphy; Equine behavior problems; Nursing care of the neonatal foal; Equine wound management; Equine bandaging techniques; Equine limb casting techniques. Proceedings of the Southwest Veterinary Symposium Fort Worth Convention Center, Ft. Worth TX. Sep 2005.

Wound management. 51st Annual Convention of the American Association of Equine Practitioners. Dec 2005.

Equine nuclear scintigraphy; Equine behavior problems; Nursing care of the neonatal foal; Equine wound management; Equine bandaging techniques; Equine limb casting techniques; Southwest Veterinary Symposium Ft. Worth, TX. Sep 2005.

Davidson, Jacqueline

The benefits of physical rehabilitation; Therapeutic exercise; Modalities used for rehabilitation; Assessment and treatment planning for rehabilitation; Physical rehabilitation laboratory. Western Veterinary Conference, Las Vegas, NV. Feb 2006.

Assessing the rehabilitation patient; Rehabilitation for osteoarthritis; Rehabilitation and obesity; Rehabilitation of the spinal cord patient; Rehabilitation in the initial postoperative period; Case studies in rehabilitation; Joint approaches, laboratory. Southwest Veterinary Symposium, Dallas, TX. Sep 2005.

Neuro-rehabilitation: Neurologic disorders and thermoplastic splinting. Northeast Seminars, Auburn, AL. May 2005.

Pain control and physical rehabilitation. Northeast Seminars. Raleigh, NC. Mar 2005.

Eddlestone Susan

Failure of imidocarb dipropionate to clear experimentally induced *Ehrlichia canis* infection in dogs. Twenty-second Annual American College of Veterinary Internal Medicine Forum. Baltimore, MD. Jun 2005.

Eilts, Bruce

Reproductive physiology and optimal breeding management of the bitch. Common feline reproductive consultations; Myths in small animal reproduction; Advanced reproductive techniques. Annual Meeting, American Animal Hospital Association. Baltimore MD, Mar 2005.

Theoretical aspects of canine semen cryopreservation; Theoretical aspects of canine cryopreserved semen evaluation; How to freeze, thaw and evaluate canine semen. Society for Theriogenology/ American College of Theriogenologist Annual Conference -Small Animal Symposium. Charleston, SC. Aug 2005.

French, Dennis

Applications and the credentialing process for ABVP certification. Washington, DC. Apr 2005.

Grooters Amy

Deep fungal infections. Twenty-second Annual American College of Veterinary Internal Medicine Forum. Baltimore, MD. Jun 2005. (1 hr).

Lopez, Mandi

Intra-articular protection of canine cranial cruciate ligament mid-substance injuries; Biomechanics of equine fracture repair; The year in review - Equine orthopedics. American College of Veterinary Surgeons. San Deigo, CA. Oct. 2005.

Lyle, Sara

Low-dose insemination - why, when, and how? Low-dose insemination equine wet lab. Society for Theriogenology/American College of Theriogenologists. Annual Conference, Charleston, SC. Aug 2005.

Processing equine semen; Assisted reproduction techniques - Embryo transfer and beyond; High risk pregnancy in the mare; Post-partum complications. Southwest Veterinary Symposium, Fort Worth, TX Sep 2005.

Mauldin Glenna

Evaluation of the *in vitro* radiosensitivity of canine osteosarcoma cells transfected with wild type. Twenty-fifth Annual Veterinary Cancer Society Meeting. Huntington Beach, CA. Oct 2005.

Merchant, Sandra

Cutaneous manifestations of systemic diseases; Otitis externa and otitis media in the dog; Diagnosis and long term management of canine Cushing's disease; Diagnosis and management of the pruritic dog. NAVC Regional Seminar, Chicago, IL, Sep/Oct 2005.

Mitchell Mark

Fluid therapy for wildlife; Understanding the reptile immune system; Reptile gastroenterology; Reptile therapeutics; Radiographic considerations for wildlife; Characterizing the health status of the Louisiana black bear. Veterinary Forum, National Wildlife Rehabilitation Association Annual Conference, Minneapolis, MN, Mar 2005.

Biology and medicine of tortoises; Introduction to reptile diagnostic testing; Emergency medicine of ferrets and rabbits; What's your diagnosis: Reptile cases; Avian gastroenterology; Chelonian surgery; Exotic pet clinical pathology. Midwest Bird and Exotic Animal Conference, Kansas State University, Manhattan, KS, Nov 2005.

Nevarez, Javier

Small mammal nutrition; Biology and medicine of domestic rabbits; Biology and medicine of ferrets; Biology and medicine of novel small exotic mammals. 142nd AVMA Convention. Minneapolis, MN. Jul 2005.

Paccamonti, Dale

The infertile mare I: Abnormal conditions of the uterus and ovaries, The infertile mare II: Endometrial biopsy and cytology; Control of the estrous cycle; Uterine clearance: Factors to consider to improve treatment outcome. South West Veterinary Symposium, Fort Worth TX, Sep 2005.

Using frozen semen: Preparation of semen for low-dose insemination; Preparation and interpretation of culture and cytology specimens in mares. Society for Theriogenology, Charleston, SC, Aug 2005.

Uterine clearance: Factors to consider to improve treatment outcome. American Association of Equine Practitioners, Equine Veterinary Wet Labs, Lexington, KY, Sep 2005.

Coordinator, Reproduction Laboratory; Rectal palpation and ultrasonography Lab instructor Wet Labs, Lexington, KY, Sep 2005.

La yegua infertil: Diagnostico y tratamiento de la endometritis y de la depuracion uterina tardia; Manejo del ciclo estral (incluyendo metodos para acortar le transicion; La yegua en la etapa final de la gestacion; diagnostico y tratamiento de la placentitis, examen de la placenta, determinacion del momento del nacimiento e induccion del parto; Patologia reproductiva de la yegua (evaluacion e interpretacion; importancia de al citologia endometrial, interpretacione de la biopsia uterine, importancia de los quistes endometriales) Novena, Jornadas Veterinarias en Medicina Equina, Buenos Aires, Argentina, Apr 2005.

Stokes, Ashley

Equine laminitis: What, when, how, and can your horse avoid it? The United States Pony Club Annual National Convention, Educational Seminars. New Orleans, LA, Jan 2005.

Strickland Keith

T-wave alternans. Twenty-second Annual American College of Veterinary Internal Medicine Forum. Baltimore, MD. Jun 2005.

Canine dilated cardiomyopathy; Chronic canine valvular disease; Case Studies: Echocardiography; Congestive heart failure. American Animal Hospital Association. Baltimore, MD. Mar 2005.

Tully Tom

Avian respiratory disease; Diagnostic testing in avian practice; *Chlamydophila psittici*: updates and realities; Ophthalmological manifestations of systemic disease; Catching, handling and grooming the avian patient; Diagnostic sampling in birds: the art of collection. British Small Animal Veterinary Association, 48th Annual Congress, Birmingham, UK. Apr 2005.

Avian ophthalmology; Avian oncology; Avian surgical equipment and instrumentation: Diagnosis and treatment options; Pet bird bandaging techniques. 78th Western Veterinary Conference. Las Vegas, NV, Feb 2006.

State and Local:

Acierno Mark

Feline chronic renal failure. Hill's Sponsored Practitioners Symposium. Austin TX. Sep 2005.

Chronic renal failure and hypertension. Columbus Academy of Veterinary Medicine. Columbus, OH. Nov 2005.

Davidson, Jacqueline

Acquired orthopedic conditions; Developmental orthopedic conditions; Neurologic conditions; When it's not a disk. Advanced Program in Veterinary Spinal Manipulative Therapy. Healing Oasis Wellness Center, Sturtevant, WI, Feb 2006.

Wound healing; Wound management; Pain management: acupuncture; Pain management: physical rehabilitation, Louisiana Veterinary Medical Association, Sandestin, FL. Jun 2005.

Veterinary physical rehabilitation. Lafayette Veterinary Medical Association. Lafayette, LA. Mar 2005.

Eddlestone Susan

Three year vaccine protocols in dogs and cats; Katrina, what went right and what went wrong; The State Veterinarian's plan for the future. Louisiana Veterinary Medical Association. Baton Rouge, LA. Feb 2006.

Eilts, Bruce

Topics in canine and feline reproduction. Northeast Louisiana Veterinary Medical Association Monroe, LA, Apr 2005.

Foil Carol

LSU Annual Dermatology Continuing Education Program: Flea Allergy, The Battle Continues; Other Arthropod Allergies Dec. 2005.

French, Dennis

Current concepts in equine parasite control. Sawtooth Veterinary Service, Ketchum, ID. Mar 2005.

Current concepts in Equine parasite control. North Dallas Veterinary Service, Dallas, TX. Mar 2005.

Gill, Marjorie

Lower limb lameness in cattle: Causes and treatment. Louisiana Veterinary Medical Association Winter Meeting, Baton Rouge, LA. Feb 2006.

Hedlund, Cheryl

Wound management - Advances. Baton Rouge Area Veterinary Medical Association, Baton Rouge, LA. May 2005.

Hosgood, Giselle

Controversies in small animal soft tissue surgery. Western Australian Veterinary Association Continuing Education Series. Perth, Australia. Aug 2005.

Hubert, Jeremy

Treatment of musculoskeletal infections; Advances in lameness diagnostics. Louisiana

Veterinary Medical Assoc. Baton Rouge LA. Jan 2006.

Johnson, Jill

Fainting, falling, seizuring, sleeping or sudden death. LVMA, Winter meeting, New Orleans, LA. 2005.

Use of bone marrow derived stem cells for tendonitis/desmitis. 28th Annual Seminar of the Louisiana Veterinary Medical Association Equine Committee. Shreveport, LA. Jan 2006.

Johnson, Stephanie

Stress management. Certified euthanasia technician workshop. Baton Rouge, LA. Aug 05.

Facilitating decision making. Acadiana Veterinary Association,, Lafayette, LA. Apr 05.

Lyle, Sara

Managing uterine clearance and other factors contributing to mare infertility; Systematic inspection of the equine placenta: Recognizing the normal and abnormal. LVMA Winter Meeting, Baton Rouge, LA. Feb 2006.

Mauldin Glenna

Diagnosis and treatment of paraneoplastic syndromes. Calcasieu Veterinary Medical Association. Lake Charles, LA. Jan 2006.

Feline oncology; Feline lymphoma. Seminar in Small Animal Oncology. Universidad Nacional Autonoma de Mexico, Facultad de Medicina Veterinaria y Zootecnia, Mexico City, Mexico. Dec 2005.

McConnico, Rebecca

Hurricane response and disaster preparedness Panel. Louisiana Veterinary Medical Association Winter Meeting. Baton Rouge, LA, Feb 2006.

McCurnin, Dennis

Habits of effective veterinarians; Making your practice successful, Client relations. Honolulu Veterinary Medical Society, Honolulu, HI. Mar 05.

How to Improve Your Practice. Baton Rouge Veterinary Medical Association, Baton Rouge, LA. May 05.

New graduate career development. Southwest Veterinary Symposium, Ft. Worth, TX. Sep 05.

The difficult client; Total quality management; Getting your career started and Keeping your career going. Visions in Veterinary Medicine Conference. College of Veterinary Medicine, Iowa State University, Ames, IA. Oct 05.

How to charge professional fees; Changing vaccination recommendations; Challenges in veterinary practice; Expanding practice when competition increases. Michigan Veterinary Conference, Lansing, MI. Jan 06.

Merchant, Sandra

Diagnosis and management of ear disease in the dog; Diagnosis and management of the pruritic dog. South Louisiana Veterinary Association. New Orleans, LA, Mar 2005.

Hypothyroidism – When to test and when not to test; Chronic otitis: Lack of aggressive initial therapy and ultimate pursuit of underlying cause; Problems in diagnosis and management of those ulcerative diseases of the cat – Really That Long on Therapy. Dermatology Continuing Education, Louisiana State University, School of Veterinary Medicine Apr 2005.

Flow chart evaluation of the pruritic dog. Calcasieu Veterinary Medical Association Oct 2005.

Food allergy; Medical management of pruritus. Dermatology Continuing Education, Louisiana State University School of Veterinary Medicine Dec 2005.

Mitchell, Mark

Husbandry and dietary considerations for captive raptors. Ark-LA-Tex AALAS Annual Conference, New Orleans, LA, Mar 2005.

Travels and tribulations of a wildlife epidemiologist. LSU Wildlife, Avian, Zoo, and Exotic Veterinary Student Club. Baton Rouge, LA, Mar 2005.

Biology and medicine of snakes; Reptile diagnostic testing. UC-Davis Avian and Exotic Annual

Meeting, Davis CA, Apr 2005.

Zoonotic disease concerns for children. Miami Children's Hospital, Miami, FL. Jun 2005.

Characterization of the health status of gopher tortoises from Louisiana. University of Illinois College of Veterinary Medicine, Aug 2005.

The successful veterinarian: Realizing your leadership potential. LSU Veterinary Business Management Student Organization. Feb 2006.

Olcott Bruce

Swine production in the United States; Swine health; Swine reproduction; Artificial insemination in swine. lecture and lab Unidad Academica Campesina Carmen Pampa, Seminar on Swine Production; Improving swine production in Bolivia, LaPaz Bolivia. Apr 2005.

Dairy production in the US; Reproductive management of dairy cows; Reproductive Management of dairy cows; Nutrition of dairy cows; Health management for dairy cows; Mastitis control for dairy cows. Primorsky State Academy Ussuriysk, Primorsky Province. Russia. May and Jun 2005.

Swine production in the United States; Swine health; Swine reproduction; Seminar on swine production; Artificial insemination in Swine. Universidad de Ciencias Comerciales, Managua, Nicaragua. Sep 2005.

Dairy production in the US; Reproductive management of dairy cows; Health management of dairy cows; Mastitis control for dairy cows; Lameness in dairy cows. Seminar on Dairy Cattle Health. St Petersburg State Agrarian University, St Petersburg, Russia. Nov 2005.

Dairy production in the US; Reproductive management of dairy cows; Dairy cattle production medicine; Health management for dairy cows; Mastitis control for dairy cows; Lameness in dairy cows. Seminar on Dairy Cattle Health. Samara Agricultural Training Center, Samara, Russia. Jan 2006.

Veterinary practice in the US; Surgical techniques, Seminar on Companion Animal Practice Reproductive management of dairy cows: Seminar on Dairy Cattle Health. Samara Agricultural Training Center, Samara, Russia. Jan 2006.

New drugs for food animal practice; Ultrasound applications for reproductive evaluation in food animals; Johne's disease control programs. LVMA Winter Conference Baton Rouge, LA. Feb 2006.

Paccamonti, Dale

Introduction to stallion anatomy and physiology; Semen collection: Equipment and procedure; Semen collection, evaluation and processing for shipment; Mare anatomy; Artificial insemination; Semen evaluation; Artificial insemination; Equine Artificial Insemination Workshop for Owners and Breeders, Baton Rouge, LA. Jan, 2006

Tully TN

Comparative morphology of fishers; Comparative morphology of amphibians; Comparative morphology of reptiles; Comparative morphology of birds; Reptile and amphibian anesthesia; Emerging infectious diseases of reptiles and amphibians; Wet labs: Dissection of lower vertebrates; Fish hematology. Envirovet, Harbor Branch Oceanographic Institute, FL. Jul. 2006.

Avian diagnostic testing; Common avian disease presentations. 52nd Annual Meeting Hawaii VMA, Honolulu, HI, Nov 2005.

Local Extension:

Olcott, Bruce

Health management for dairy cows: Seminar on Dairy Cattle Health. Samara Agricultural Training Center, Samara, Russia Jan 2006.

Goats around the world. Pets & Vets LSU/SVM. Baton Rouge, LA. Jun 2005.

Lay:

Burba, Daniel J

Tie forward for DDSP; Laser assisted surgery for cribbing. 28th Annual Seminar of the Louisiana Veterinary Medical Association Equine Committee. Bossier City, LA. Jan 2006.

Tie Forward for DDSP. In: Proceedings of the 28th Annual Seminar of the Louisiana Veterinary Medical Association Equine Committee. 28:214-219 2006.

Laser assisted surgery for cribbing. In: Proceedings of the 28th Annual Seminar of the Louisiana Veterinary Medical Association Equine Committee. 28:220-223 2006.

French, Dennis D.

Hurricane equine rescue operations; Deworming concepts for therapeutic horses; New drugs and management options for colic. NARHA Horse Fair, Houston, TX. Nov. 2005.

Two months of triage; Unexpected stressors in disaster management. Music City Veterinary Conference Nashville, TN. Mar 2006.

Hoyt, Phillip G.

Development of clinical signs in Brahman calves affected with Pompe's disease, Feb, 2005. Louisiana Veterinary Service Association Winter Meeting, New Orleans, LA.

Hubert, Jeremy

Equine Dentistry Courses. LSU-SVM Baton Rouge, LA. Jun 2005.

Johnson, Jill

Neurologic diseases of horses. United States Pony Club Annual Convention, New Orleans, LA, Jan 2005.

Lopez, Mandi

Advancement of therapeutic riding through kinesiology. Louisiana Therapeutic Riding Association Meeting, Jan 2006.

Moore, Rustin

LSU hurricane equine rescue operation summary. J Equine Vet Sci 25 (11) 460-464, 2005.

Olcott, Bruce

Olcott BM, Dupree DD. Enhancing swine production in Bolivia. Annual Meeting, Agricultural Cooperative Development International, Washington, DC, May 2005.

Limiting factors for swine production in Nicaragua. Seminar Institute International Cooperative for Agriculture. Seminar on Swine Production manage, Nicaragua Sep 2005.

Johne's disease in La. Cattle. Johne's disease program for Louisiana cow herds. Annual Meeting of the Louisiana Farm Bureau Association. Jul 2005.

Stokes, Ashley

Equine laminitis: What, when how, and can your horse avoid it? The United States Pony Club

Annual National Convention, Educational Seminars, New Orleans, LA, Jan 2005.

Tully TN

The world of beaks and feathers. LSU - SVM. Pets/Vets Program. Jun 2005.

Pet bird care - questions and answers. Louisiana Aviculture Society. New Orleans, LA. May 2005.

Maintaining a healthy environment for your bird. South Alabama Bird Club. Mobile, Alabama. Jul 2005.

SVM avian research. Gulf South Bird Club. Raceland, LA. Dec 2005.

Student Presentations:

Mauldin Glenna

Basic fluid therapy. Student Chapter of the Veterinary Emergency and Critical Care Society. Louisiana State University School of Veterinary Medicine. Baton Rouge, LA, Sep 2005.

Vaccine associated sarcomas in the cat. Student Chapter of the American Association of Feline Practitioners. Louisiana State University School of Veterinary Medicine. Baton Rouge, LA, Mar 2005.

McConnico, Rebecca

McConnico RS, Eades SC. Perspectives on equine veterinary career while raising a family. Student Chapter of the American Association of Equine Practitioners; Louisiana State University, School of Veterinary Medicine. Baton Rouge, LA. Jan 2005.