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> 72nd Annual Conference for Veterinarians



January 16,17,8[,]18,1980



NewYork State

College of Veterinary Medicine

Cornell University

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Dear Colleague:

On behalf of the organizing committee of the 72nd Annual Conference for Veterinarians and the Faculty of the New York State College of Veterinary Medicine at Cornell University, I welcome you to participate in this years program.

The scientific program has been designed to provide several options this year. These include both in-depth seminars and general sessions with shorter presentations. There will be an opportunity to concentrate on large or small animal subjects or to emphasize specialty needs. An outstanding faculty of on-campus and outside speakers have agreed to participate.

In addition, I would call to your attention other events which we hope will make this a meaningful conference for you. Times have been designated for fraternity gatherings and for the annual alumni luncheon. A Conference reception will provide an opportunity to renew old acquaintances and make new friends.

A spouse's program has been planned for both

educational and social enjoyment.

For those with athletic interests, I would call your attention to the men and women's tennis tournament. Skiing is available at Greek Peak or on the many local cross-country ski trails (on your own), and for those who wish to stay longer, Cornell faces off against Yale in ice hockey Saturday night, January 19. (You will be responsible for your own ticket arrangements.)

As a result, I believe you will find the 72nd Annual Conference educational, relaxing, and providing an opportunity for exchange of in-

formation and goodwill.

I would like to thank all participants and supporters of this Conference and express special appreciation to the staff of the Boyce Thompson Institute of Plant Research for their cooperation and the use of their facilities for parts of our program.

We look forward to seeing you in Ithaca for the

72nd Annual Conference.

With best regards,

Charles E. Short, D.V.M. Conference Chairman

PROGRAM COMMITTEE

Leland E. Carmichael
Gary L. Cockerell, Vice-Chairman
Rudolph Dueland
William E. Hornbuckle
John E. Lowe
William C. Rebhun
Wayne S. Schwark
Charles E. Short, Chairman
Donald F. Smith

CONFERENCE COORDINATOR

Linda A. Ritzler

Room Guide:

G-3—1st Floor of the Veterinary Research Tower
D-105—Physiology Classroom
C-207—Pathology Classroom
G-131—Classroom next to
Large Animal Receiving
B.T.I.—Boyce Thompson Institute

B.T.I. — Boyce Thompson Institute Auditorium — James Law Auditorium D-215 — Anatomy Classroom

72nd ANNUAL CONFERENCE FOR VETERINARIANS

January 16, 1980

Wednesday, 9:00 a.m. - 12:00 p.m.

Course Number	Room	Title
101	C-207	Endocrinology I — Practical Veterinary Endocrinology
102	Auditorium	Small Animal Orthopedics I
103	D-105	Feline Medicine I
104	BTI Auditorium	Contrast Radiography in the Diagnosis of Cardiac Disease
105	G-131	Practical Clinical Theriogenology
106	G-3	Selected Aspects of Equine Dermatology

VISIT THE EXHIBITS

Wednesday, 2:00 p.m. - 5:00 p.m.

107	Auditorium	Small Animal Orthopedics II
107	Auditorium	
108	D-105	Feline Medicine II
109	BTI Auditorium	Critical Care of the
		Emergency Patient
110	D-215	Surgery of the Teat and
	ALL TO PRESIDENCE INCIDENCE	Mammary Gland and
		Lameness in Cattle
111	G-131	Upper Respiratory Diseases
		of the Horse
112	C-207	Autoimmunity: Facts and
		Fancy
113	Necropsy Rm.	Necropsy Techniques of the
		Horse

January 17, 1980 Thursday, 9:00 a.m. — 12:00 p.m.

GENERAL SESSION

Robert W. Kirk, Presiding

0		
Course Number	Room	Title
201	Auditorium	Canine Viral Enteritis: Update
202	Auditorium	Interpretation of Chemical Profiles
203	Auditorium	Effects of Medication on the Liver
204	Auditorium	Laboratory Diagnosis of Feline Infectious Peritonitis: Clinical Pathology and
205	Auditorium	Serology Digitalis: How to Use It
206	Auditorium	Anesthesia Waste Gases and Your Health

REGULAR SESSION

9:00 a.m. - 12:00 p.m.

207	D-105	Diagnosis and Treatment of
		Abomasal Diseases in the Cow
208	D-215	Evaluation of the Lower
		Respiratory Tract and Its
		Diseases
209	C-207	Surgical Pathology
		8

12:15 p.m. - Alumni Luncheon

Statler Ballroom

Thursday, 2:30 p.m. - 5:30 p.m.

GENERAL SESSION

Francis H. Fox, Presiding

Course		
Number	Room	Title
210	Auditorium:	Motility of the Equine Intestinal Tract
211	Auditorium	Treatment of Equine Verminous Arteritis
212	Auditorium	Bovine Salmonellosis in New York State
213	Auditorium	Endurance Horses – Effect of Diet on Biochemical and Clinical Measurements
214	Auditorium	Current Status of Bovine Brucellosis and Tuberculosis in New York State
215	Auditorium	Chromosome Studies of Cattle

REGULAR SESSION

2:30 p.m. - 5:30 p.m.

216	C-207	Endocrinology II — Hypercal- cemia — Hypocalcemia
217	BTI Auditorium	Practical Techniques for Recon- struction of Traumatized Skin
218	G-3	Thoracic and Abdominal Trauma in the Dog and Cat
219	D-105	(Radiographic Aspects) Ophthalmology of the Small Animal

CONFERENCE RECEPTION

6:00 p.m. - 8:00 p.m.

Statler Ballroom

Please join us for Hors d'oeuvres, Wines and good fellowship.

January 18, 1980

Friday, 9:00 a.m. - 12:30 p.m.

Course		
Number	Room	Title
301	BTI Auditorium	Immune Mediated Skin Dis- orders in Small Animals
302	D-105	Principles of Small Animal Thoracic Surgery
303	Auditorium	Small Animal Gastroenterol- ogy: (Mal-) Digestion and (Mal-) Absorption
304	D-215	Neurologic Diseases in the Dog
305	C-207	Bovine Respiratory Diseases
306	G-3	Orthopedic Diseases of the Foal

VISIT THE EXHIBITS

Friday, 2:00 p.m. - 5:00 p.m.

307	C-207	Immunodeficient and
		Immunoproliferative
		Diseases
308	Auditorium	General Soft Tissue Surgery
		of Small Animals
309	D-105	Chronic Feline Respiratory
		Diseases
310	G-131	Selected Problems in Goat
310	0.01	Medicine
311	G-3	Management of the Racing
311		Horse From the Veterinary
		and Economic Standpoint
312	Necropsy Room	Necropsy Techniques of the
312	Necropsy Room	Horse (Repeat from
		Wednesday)

SAFE TRIP HOME

101 - C-207 Endocrinology I - Practical Veterinary Endocrinology

Charles C. Capen

Objective: To provide the practicing veterinarian with recent advances in the clinical diagnosis and understanding of the more common endocrinopathies in small animals. Selected clinical endocrine disease problems will be discussed and illustrated involving the pituitary gland, adrenal cortex, thyroid gland, parathyroid gland-thyroid C cells, and pancreatic islets. Particular attention will be directed toward diseases of the pituitary-adrenal axis, thyroid disorders, metabolic diseases associated with alteration in blood calcium and bone, diabetes mellitus, and hyperinsulinism. The course will emphasize clinical recognition of each endocrinopathy, interpretation of laboratory data, and appropriate treatment.

102 — Auditorium Small Animal Orthopedics I

Eric J. Trotter and Rudolph Dueland Selected topics in small animal orthopedics will be covered in detail and illustrated by clinical cases. The spectrum of orthopedic surgery from the emergency treatment of compound fractures through the definitive treatment of selected fractures and growth deformities will be covered. Surgery of selected joints, commonly encountered in small animal practice, will also be emphasized. The course will be team-taught by the Orthopedic Surgical Service.

103 - D-105 Feline Medicine I

Peter Theran

A review of selected feline diseases will be presented with a discussion of recent developments. Subjects covered will be Panleukopenia, Malignant Lymphoma, FIP and Toxoplasmosis.

104 — BTI Auditorium Contrast Radiography in the Diagnosis of Cardiac Disease

Gary R. Bolton and Victor T. Rendano
This seminar will utilize a case study format to
demonstrate ways in which contrast radiography

may be used to diagnose diseases of the heart, blood vessels, and pericardium. Diseases to be discussed include congenital heart diseases, cardiomyopathies, pericardial diseases, heartworm disease, and porto-systemic shunts. Both selective and non-selective techniques will be demonstrated for using angiocardiography as a practical diagnostic procedure. During the case presentation, differential diagnoses will be emphasized.

105 — G-131 Practical Clinical Theriogenology

Charles E. Hall, Robert B. Hillman, Norman LaFaunce and Donald H. Lein

This presentation will address: (1) Concerns for the periparturient cow — involution, cycling, reducing infection, current hormone therapy, emphasis on prostaglandins, (2) Equine breeding soundness examination, and (3) Using diagnostic laboratory resources for infertility problems.

106 — G-3 Selected Aspects of Equine Dermatology

Danny W. Scott

This three-hour seminar will address common equine dermatoses, emphasizing diagnosis and therapy. Disorders to be discussed include folliculitis-furunculosis, seborrhea complex, onchocerciasis, culicoides hypersensitivity, habronemiasis, ventral midline dermatitis, aural plaques, and nodular collagenolytic granuloma. Other entities will be covered as time permits.

107 — Auditorium Small Animal Orthopedics II

Eric J. Trotter and Rudolph Dueland This is a continuation of Small Animal Orthopedics I. (See Course Number 102)

108 - D-105 Feline Medicine II

Peter Theran

Lesser known diseases, including some endocrinological disorders will be discussed. This will include steatitis, eosinophilic enteritis, diabetes mellitus and thyroid disease. Finally case presentations will be presented to illustrate a diagnostic approach to the problem cat.

109 - BTI Auditorium Critical Care of the Emergency Patient

Charles E. Short

This presentation will consider the dog and cat following trauma. The emphasis will be on life support measures needed following fight wounds, trauma from moving vehicles, and gunshot wounds. The veterinarian should gain additional information on (a) The immediate care of the trauma case including respiratory, cardiovascular, and neurological measures, (b) Diagnosis and treatment of pneumothorax, shock/excessive hemorrhage, and other life threatening conditions, (c) Supportive therapy during the first 24 hours, (d) Anesthetic and other considerations if surgery is to be performed. The seminar will be presented by Dr. Short with assistance from the anesthesia staff.

110 - D-215 Surgery of the Teat and Mammary Gland and Lameness in Cattle

Bruce L. Hull

Although causes of lameness and typical case histories will be covered, diagnosis and treatment will be emphasized. Some new possibilities for treatment will be presented. Although many methods of treatment will be discussed, practical field treatments will be emphasized. This is primarily a lameness seminar but fractures and their repair will be covered. Teat and Udder — Repair of teat lacerations and teat obstructions will be discussed. In addition, mammary vessel ligation and udder amputation will be covered.

111 - G-131 Upper Respiratory Diseases of the Horse

Christine Koch

Discussion of diagnosis, management and prognosis of diseases and abnormalities of the larynx, pharynx, and nasal passages in relation to respiratory function in the horse will be presented.

112 - C-207 Autoimmunity: Facts and Fancy

Robert M. Lewis

The basis of autoimmunization will be discussed as it relates to clinical disease in domestic animals. Representative case material from case records on file in the Teaching Hospital will be used to illustrate commonly encountered entities currently considered to result from autoimmunization. Emphasis will be placed on diagnostic methods and therapeutic modalities employed in the recognition and treatment of autoimmune disease.

113 - Necropsy Room Necropsy Techniques of the Horse

John M. King

A demonstration of a useful technique for an equine necropsy will be given with a running commentary as to why it's being done in this fashion, what the common nonpathological and pathological findings mean for each organ and a brief description of various common diseases best diagnosed by a necropsy.

201 – Auditorium Canine Viral Enteritis: Update

Roy V. H. Pollock

In 1978, viral gastroenteritis suddenly emerged as a common and important clinical disease in dogs. Two viral pathogens have been identified as causative agents: Canine Coronavirus and Canine Parvovirus. Canine parvoviral enteritis is a novel disease syndrome caused by a previously unknown canine pathogen. In the past 18 months, parvoviral enteritis has been confirmed on at least 4 continents. Canine coronavirus was isolated some years ago but coronaviral enteritis was not recognized as an important clinical entity until recently. This presentation will focus on the clinical manifestations, diagnosis and treatment of these important new canine diseases. Pathologic lesions and apparent routes of transmission will be covered. The most recent results of vaccine development studies will also be discussed.

202 — Auditorium Interpretation of Chemical Profiles

John Bentinck-Smith

Those technological problems which interfere with reliable results will be reviewed. These include hemalysis, lipemia, bilirubenemia, and prolonged contact between red cells and serum.

The effect of primary disease will be con-

trasted with secondary changes.

Some of the major clinical entities will be discussed and the reliability of the chemical profile to detect these entities will be discussed.

203 — Auditorium Effects of Medication on the Liver

William E. Hornbuckle

The role of several commonly used medications in veterinary practice will be discussed relative to their effect on liver function tests and/or histology (e.g. glucocorticosteroids, anticonvulsants, etc.).

204 — Auditorium Laboratory Diagnosis of Feline Infectious Peritonitis: Clinical Pathology and Serology

Richard E. Weiss

A short presentation covering current methods of diagnosing F.I.P. in the laboratory, including hematology, serology, cytology, and biopsy. Recent research findings concerning coagulation parameters are mentioned. Included is a discussion of the uses, limitations, and interpretation of the fluorescent antibody test for determination of F.I.P. titers.

205 - Auditorium Digitalis: How to Use It

Gary R. Bolton

Recent scientific information has permitted a more rational concept of what digitalis does, why it works, and how it should be used. The choice of digoxin or digitoxin, and which is the better drug, is more clear now. Another important decision is when and when not to use digitalis glycosides. The why, when, and how of digitalis therapy will be discussed.

206 — Auditorium Anesthesia Waste Gases and Your Health

Charles E. Short

Much concern has developed over the effects of low level exposure to anesthetic waste gases. Efforts have been made to determine the extent of risk and the levels of exposure in veterinary medicine. This presentation will acquaint the veterinarian with (a) common levels of anesthetic exposure, (b) the hazards of breathing these levels, (c) what can be done to reduce exposure, and (d) the role of the N.Y.S.C.V.M. and the problem. The presentation will be illustrated with 35 mm slides.

207 - D-105 Diagnosis and Treatment of Abomasal Diseases in the Cow

Donald F. Smith and William C. Rebhun This seminar will emphasize management of abomasal ulcers, adhesions, displacements, impactions, and combinations of such lesions. It will include in-depth logistics of what surgical/ medical procedures are best for each patient based on the animal's stage of lactation, stage of gestation, sex and concurrent diseases. The selection of surgical site and suture material will be reviewed. The management and correction of complications of surgical procedures will be discussed. This will include correction of abomasal fistulas. Diagnostics will be reviewed especially as regards the correct differential diagnosis of left and right side gas pings - specifically differentiating rumen from LDA pings and cecal, colonic, rectal, and small bowel gas pockets from RDA or RDA plus torsion.

208 - D-215 Evaluation of the Lower Respiratory Tract and Its Diseases

Jill Beech

This presentation will include diagnostic techniques used in evaluating respiratory tract diseases and a discussion of various infectious and noninfectious problems. Differential diagnoses will be covered and various treatment regimens compared.

209 - C-207 Surgical Pathology

Barry J. Cooper

The presentation will describe routine and specialized techniques available for the examination of specimens submitted by referring veterinarians. Methods of preparation and tissue selection will be discussed with the aim of improving interaction between pathologist and veterinarian.

210 — Auditorium Motility of the Equine Intestinal Tract

Alvin F. Sellers and John E. Lowe Illustrated lecture (35 mm slides, 16 mm silent motion pictures) regarding the mechanics of digesta transit, including the some 48–72 hours delay time imposed on passage through the large colon.

211 – Auditorium Treatment of Equine Verminous Arteritis

Jay R. Georgi

Experiments testing the larvicidal activity of albendazole against *Strongylus vulgaris* and the healing of verminous arteritic lesions after albendazole therapy will be described.

212 - Auditorium Bovine Salmonellosis in New York State

Patrick L. McDonough

There have been twelve confirmed outbreaks of adult bovine salmonellosis in New York State since March 1979. This presentation will discuss the epidemiology of bovine salmonellosis, along with an updated report of the 12 outbreaks. Various aspects of salmonellosis will be emphasized including the pattern of disease, effect of "stress" on the Salmonella problem, the carrier state, economic impact, public health significance. A combined diagnostic laboratory-clinical approach to the Salmonella problem will be developed stressing (1) immediate control effects during an outbreak, and (2) long-term considerations in the prevention and control of the problem.

213 — Auditorium Endurance Horses — Effect of Diet on Biochemical and Clinical Measurements

Harold F. Hintz, Karl K. White and Charles E. Short

The effect of feeding diets containing high levels of fat or high levels of protein on the performance of horses ridden 50 miles at a rate of 9½ miles per hour will be discussed. The changes in metabolite and electrolyte levels and physical characteristics of horses during the rides will be presented.

214 — Auditorium Current Status of Bovine Brucellosis and Tuberculosis in New York State

Francis J. Drazek

A review and update of the status of brucellosis and tuberculosis will be presented. This will include confronting problems in a total eradication program and the role of calfhood vaccination.

215 — Auditorium Chromosome Studies in Cattle and Horses

Henry O. Dunn

Chromosome aberrations will be related to the anomalies and reproductive failures in cattle and horses. The freemartin syndrome will be discussed in relation to males and females. Techniques pertinent to cooperative research with field veterinarians will be presented.

216 — C-207 Endocrinology II — Hypercalcemia — Hypocalcemia

Charles C. Capen

Objective: To provide a practical basis for understanding the differential features of metabolic disorders in animals with alterations in blood calcium. Attention will be directed towards understanding recent advances in the integrated function of parathyroid hormone, calcitonin, and vitamin D in the control of blood calcium. Selected disease problems in animals will be discussed to illustrate the clinical effects of alterations in the blood calcium concentration. Emphasis will be placed on understanding the

pathogenic mechanisms involved, interpretation of laboratory data, and clinical recognition of functional disturbances.

217 - BTI Auditorium Practical Techniques for Reconstruction of Traumatized Skin

Steven F. Swaim

The presentation will briefly deal with some of the etiologic factors causing skin trauma. The majority of the presentation will deal with practical techniques which can be used by the practitioner in reconstructing traumatic skin defects. These techniques will include: 1) The principles and techniques for closing various shaped wounds (i.e. fusiform, triangular, rectangular, square, circular, chevron shaped, crescent shaped, and others) 2) The use of a "walking" suture pattern to close large skin defects, 3) the use of local skin flaps (transposition, rotation, and sliding flaps) to close defects, and 4) the use of practical skin grafting techniques (i.e. strip grafts, mesh-type grafts and split-thickness grafts obtained with a single-edge injector razor).

218 – G-3 Thoracic and Abdominal Trauma in the Dog and Cat (Radiographic Aspects)

Lawrence J. Kleine

We see a higher percentage of acute and traumatic conditions in our 40,000 caseload than most veterinary practices because of our urban location.

Acute disorders are defined as those which have a short and severe course. Many of these conditions are caused by trauma which broadly defined can refer to any injury but is generally divided into categories such as chemical, penetrating, blunt and self-induced. Correct classification of the disease based on clinical and radiographic data is essential in order to restore homostasis by medical or surgical means rapidly. An exact diagnosis is often not possible until further lesions develop or until the results of laboratory tests are available.

Radiology is often the most valuable diagnostic aid in determining whether surgery should be performed and which laboratory tests are indicated. Radiographs also provide a baseline which can be compared with data derived later in the course of illness to evaluate the animal's progress or response to treatment. But before radiography of the traumatized animal is performed, life threatening conditions are treated by providing circulatory support, an adequate airway, stopping internal bleeding, and temporarily immobilizing fractures.

The radiographic aspects of trauma will be

discussed in this seminar.

219 — D-105 Small Animal

Opthalmology of the

Ronald C. Riis, Thomas J. Kern and William C. Rebhun

OPHTHALMIC CYTOLOGY — The first hour will be devoted to the techniques of sampling the cellular reactions in ocular disease and interpreting the slides to aid in diagnosis and treatment.

Examples of all species will be given.

PROBLEM-ORIENTED FELINE OPH-THALMOLOGY — The second hour will be devoted to the discussion of diagnostic assessment and therapy of many common clinical presentations of feline external, anterior segment, and posterior segment ocular diseases. Emphasis will be placed upon the development of specific and rational diagnostic requirements to form the foundation for effective therapy and appropriate client education.

DIAGNOSIS AND RECOGNITION OF HEREDITARY OCULAR DISORDERS — The third hour will be devoted to the diagnosis, significance, and genetics of small animal hereditary ocular disorders. Corneal, lenticular and ret-

inal lesions will be emphasized.

301 – BTI Auditorium Immune Mediated Skin Disorders in Small Animals

Danny W. Scott and Thomas Manning
This three-hour seminar will present an overview of immunologic skin disorders in small animals. Subjects to be aired include allergic
(atopic, food), autoimmune (pemphigus, pemphigoid, lupus), and immune-mediated (dermatitis herpetiformis, drug) dermatoses.

302 — D-105 Principles of Small Animal Thoracic Surgery

H. Jay Harvey

This three-hour seminar will describe aspects of thoracic surgery that are of practical and theoretical value to the small animal clinician. Several surgical principles applicable to thoracic operations will be presented followed by a discussion of specific disease states and related diagnostic and therapeutic procedures. Basic surgery of the lung, heart, esophagus, and diaphragm will be emphasized.

303 — Auditorium Small Animal Gastroenterology: (Mal-) Digestion and (Mal-) Absorption

James F. Zimmer

The goal of this presentation is to provide information which will aid the practicing veterinarian in the diagnosis and treatment of small animals with small bowel disease. An understanding of the basic physiological processes of intestinal digestion and absorption is necessary to facilitate the selection and interpretation of practical diagnostic procedures useful in such cases. Examples of the application of these principles and procedures to selected cases will be presented to illustrate their clinical usefulness.

304 - D-215 Neurologic Disease in the Dog

Alexander deLahunta

Selected cases of neurologic diseases in the dog will be presented in the form of case studies documented with films. Lesion location and differential diagnoses will be emphasized and cases will be selected to present new ideas and review previous experience in clinical neurology.

305 - C-207 Bovine Respiratory Disease

Erwin G. Pearson and William C. Rebhun A short discussion of pathophysiology producing the signs of respiratory disease and the lung's protective mechanism will be followed by a discussion of up-to-date practical diagnostic techniques. Included will be trans-tracheal wash-

ings, mucosal smears, and biopsies. Specialized tests performed on referral animals will be

briefly discussed.

The majority of the program will be devoted to diagnosis, differentiation, treatment, and prevention of the most troublesome respiratory diseases of individual and herds of cattle. Some of the topics to be discussed include: IBR, Pasteurellosis, Malignant Catarrhal Fever, Enzootic calf pneumonia, Hemophilus pneumonia, Posterior vena caval thrombosis, Acute Bovine Emphysema, etc.

306 - G-3 Orthopedic Diseases of the Foal

Douglas B. Koch

This presentation will cover orthopedic problems in young horses including angular limb deformities, flexure deformities, epiphyseal compression syndrome, neonatal septic arthritis and osteomyelitis, congenital orthopedic problems and the management of fractures and injuries of the young foal.

307 - C-207 Immunodeficient and Immunoproliferative Diseases

Gary L. Cockerell

Immunodeficient and immunoproliferative diseases represent inter-related structural/functional derangements in cells which mediate and regulate the host immune response. These disorders involve specific subclasses of cells, which determine the clinicopathological manifestations and response to treatment of the disease process. Both large and small animals are affected, but major differences are seen in the subclasses of cells involved within and between species. This seminar will discuss the range of diseases seen, their pathological basis, clinical presentations and means of differentiation, differences in prognosis and approaches to treatment.

308 — Auditorium General Soft Tissue Surgery of Small Animals

Richard W. Greene

Common surgical procedures of the urogenital tract of the dog and cat will be discussed.

309 - D-105 Chronic Feline Respiratory Diseases

Glen L. Spaulding

The diagnosis and treatment of feline respiratory diseases will be discussed by case presentation. Evaluation based on the clinical interpretation of radiographic, hematologic, serologic, and cytologic examination will be emphasized.

310 – G-131 Selected Problems in Goat Medicine

Mary C. Smith

Part one will cover differential diagnosis and treatment of neurological diseases of the goat, including listeriosis, PEM, cerebrospinal nematodiasis and viral leukoencephalomyelitis.

Part two will review diagnosis, treatment, and prevention of other infectious diseases of bacterial, viral, and parasitological origin. Special emphasis will be placed on the unthrifty or emaciated goat, the coughing goat, and the goat with external visible lumps.

311 – G-3 Management of the Racing Horse from the Veterinary and Economic Standpoint

A. Gary Lavin

The health and soundness of the racing horse throughout its career with particular consideration to the economic considerations of the individual as a factor in the planning and carrying out of a racing career from a veterinary standpoint will be discussed.

312 - Necropsy Room Necropsy Techniques of the Horse

John M. King

This is a repeat program (see course number 113).

STAFF SPEAKERS

- Bolton, Gary R., D.V.M., Associate Professor of Internal Medicine and Cardiology, Department of Clinical Sciences
- Bentinck-Smith, John, D.V.M., D.A.C.V.P., Professor of Clinical Pathology, Department of Clinical Sciences
- Cockerell, Gary L., D.V. M., Ph.D., Assistant Professor of Pathology, Department of Pathology
- Cooper, Barry J., B.V.Sc., Ph.D., Assistant Professor of Pathology, Department of Pathology
- deLahunta, Alexander, D.V.M., Ph.D., D.A.C.V.I.M. (Neurology), Professor of Anatomy, Chairman, Department of Clinical Sciences, and Director of Teaching Hospital
- Drazek, Francis J., D.V.M., Assistant Director, N.Y.S. Department of Agriculture and Markets, Diagnostic Laboratory
- Dueland, Rudolph, D.V.M., M.S., D.A.C.V.S., Associate Professor of Orthopedic Surgery, Department of Clinical Sciences
- Dunn, Henry O., B.S., M.S., Ph.D., Senior Research Associate, Department of Clinical Sciences
- Fox, Francis H., D.V. M., Professor of Veterinary Medicine and Obstetrics, Department of Clinical Sciences
- Georgi, Jay R., D.V.M., Ph.D., Professor of Parasitology, Department of Preventive Medicine
- Hall, Charles, D.V.M., Associate Professor of Reproductive Studies, Department of Clinical Sciences
- Harvey, H. Jay, D.V.M., D.A.C.V.S., Assistant Professor of Surgery, Department of Clinical Sciences
- Hillman, Robert B., D.V.M., M.S., Senior Clinician, Ambulatory Clinic, Department of Clinical Sciences

- Hintz, Harold F., B.S., Ph.D., Professor of Animal Nutrition, Department of Clinical Sciences
- Hornbuckle, William E., D.V.M., Assistant Professor of Medicine, Department of Clinical Sciences
- Kern, Thomas J., B.S., D.V.M., Instructor of Medicine (Ophthalmology), Department of Clinical Sciences
- King, John M., D.V.M., Ph.D., D.A.C.V.P., Professor of Pathology, Department of Pathology
- Kirk, Robert W., D.V.M., D.A.C.V.I.M., Professor of Medicine, Department of Clinical Sciences
- Koch, Douglas B., D.V. M., Assistant Professor of Surgery, Department of Clinical Sciences
- Koch, Christine, B.S., D.V.M., Instructor in Surgery, Department of Clinical Sciences
- LaFaunce, Norman A., D.V.M., Assistant Professor of Theriogenology, Department of Clinical Sciences
- Lein, Donald, D.V.M., Ph.D., Associate Director of Diagnostic Laboratory, Director of Field Services, Associate Professor of Theriogenology and Pathology
- Lewis, Robert M., D.V.M., D.A.C.V.P., Professor of Pathology and Chairman of the Department of Pathology
- Lowe, John E., D.V. M., M.S., Associate Professor of Surgery and Coordinating Manager of Equine Research Park, Department of Clinical Sciences
- Manning, Thomas, D.V.M., Resident in Comparative Dermatology, Department of Clinical Sciences
- McDonough, Patrick, B.S., M.S., Supervisor of Bacteriology and Mycology Laboratory and Graduate Research Assistant, Diagnostic Laboratory

- Pearson, Erwin G., B.S., D.V.M., M.S., D.A.C.V.I.M., Assistant Professor of Medicine, Department of Clinical Sciences
- Pollock, Roy V. H., B.A., D.V.M., Graduate Research Assistant, James A. Baker Institute for Animal Health
- Rebhun, William C., D.V.M., D.A.C.V.O., Assistant Professor of Medicine and Opthalmology, Department of Clinical Sciences
- Rendano, Victor T., Jr., V.M.D., M.Sc., D.A.C.V.R., Assistant Professor of Radiology, Department of Clinical Sciences
- Riis, Ronald, B.S., D.V.M., M.T., D.A.C.V.O., Assistant Professor of Medicine, Chief of Ophthalmology Service, Department of Clinical Sciences
- Scott, Danny W., B.S., D.V.M., D.A.C.V.I.M., Assistant Professor of Medicine, Department of Clinical Sciences
- Sellers, Alvin F., V.M.D., M.Sc., Ph.D., Professor of Physiology, Department of Physiology, Biochemistry and Pharmacology
- Short, Charles E., D.V.M., M.S., D.A.C.V.A., Professor and Chief, Anesthesiology Section, Department of Clinical Sciences
- Smith, Donald F., D.V.M., Assistant Professor of Surgery, Department of Clinical Sciences
- Smith, Mary C., B.S., D.V. M., Assistant Professor of Large Animal Medicine, Ambulatory Clinic, Department of Clinical Sciences
- Spaulding, Glen L., D.V.M., D.A.C.V.I.M., Assistant Professor of Medicine, Department of Clinical Sciences
- Trotter, Eric J., B.S., D.V.M., M.S., D.A.C.V.S., Associate Professor and Chief of Surgery; Director of Small Animal Clinic, Department of Clinical Sciences

- Weiss, Richard C., B.S., V.M.D., Post-doctoral Fellow, Cornell Feline Research Laboratory, Department of Microbiology
- White, Karl K., B.S., D.V.M., Assistant Professor of Surgery, Director of Large Animal Clinic, Department of Clinical Sciences
- Zimmer, James J., D.V.M., Ph.D., Assistant Professor of Medicine, Department of Clinical Sciences

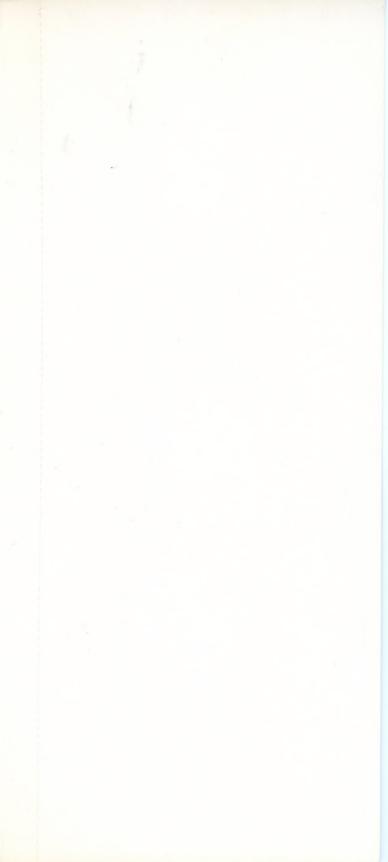
GUEST SPEAKERS

- Beech, Jill, D.V.M., Assistant Professor of Medicine, University of Pennsylvania, School of Veterinary Medicine, New Bolton Center, Kennett Square, Pennsylvania 19348
- Capen, Charles C., D.V.M., M.Sc., Ph.D., Professor of Pathobiology, College of Veterinary Medicine, The Ohio State University, 1925 Coffey Rd., Columbus, OH 43210
- Greene, Richard W., D.V.M., D.A.C.V.S., Practitioner, New Rochelle Animal Hospital, 98 North Ave., New Rochelle, New York 10801
- Hull, Bruce L., D.V.M., M.S., D.A.C.V.S., Associate Professor, The Ohio State University, 1935 Coffey Road, Columbus, OH 43210
- Kleine, Lawrence J., D.V.M., M.S., D.A.C.V.R., Director of Radiology, Angell Memorial Animal Hospital, 180 Longwood Ave., Boston, Massachusetts 02109
- Lavin, A. Gary, V.M.D., Owner, Twin Spires Equine Clinic, P.O. Box 177 Prospect, Kentucky 40059
- Swaim, Steven F., B.S., D.V.M., M.S., Associate Professor of Surgery, Department of Small Animal Surgery and Medicine, School of Veterinary Medicine, Auburn University, Auburn, Alabama 36830
- Theran, Peter, V.M.D., Assistant Chief of Staff, Angell Memorial Animal Hospital, 180 Longwood Ave., Boston, Massachusetts 02109

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