

7th

ANNUAL CONFERENCE

AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS

December 8-11, 1974 • Sheraton-Columbus Motor Hotel, Columbus, Ohio

PRE CONVENTION SEMINARS

Thursday, December 5, 1974

8:00 A.M. Thursday thru 5:00 P.M. Saturday. **Production of Quality Milk** – Grant Room. *Chairman: Dr. James A. Jarrett, Rome, Georgia*

A. Jarrett, Rome, Georgia

Sanitation: Milking Techniques; Dry Cow Management: Dr. John M. Woods, Mesa, Arizona

Milking Machine Function and Testing: Dr. James A. Jarrett, Rome, Georgia

Bacteriology, Culturing Procedures, and Laboratory Techniques: Dr. Donald S. Postle, Ithaca, New York

Quality Milk Production, Off Flavors; Ropy Milk; Bacteria Counts: Dr. George Perlmutter, Fieldman for Coast Grain Co., Los Angeles, California

(Registration fee - \$200.00. Pre-registration by November 1, 1974. Limited to 20. Reservations with fee to Dr. H. E. Amstutz, Secretary-Treasurer, AABP, Box 2319, West Lafayette, Indiana 47906)

Friday, December 6, 1974

8:00 A.M. - 5:00 P.M. Continuation of **Production of Quality Milk Seminar – Farms**

Saturday, December 7, 1974

8:00 A.M. - 5:00 P.M. Continuation of **Production of Quality Milk Seminar – Grant Room**

Seminars arranged by the American College of Theriogenology and the American Veterinary Society for the Study of Breeding Soundness.

Saturday, December 7, 1974

Dr. John C. Simon
Torrington, Wyoming – Chairman

Morning Schedule

9:00 A.M. - 12:00 P.M. **I. Recent Concepts in Neonatal Calf Disease** – Mars, Jupiter. Registration Fee: \$10.00.

A. “Infectious Causes and Epidemiologic Implications in Enteric Diseases of Calves”: Dr. Johannes Storz, Ft. Collins, Colorado

B. “Pathophysiology and Treatment of Diarrhea in Calves”: Dr. R. W. Phillips, Ft. Collins, Colorado

C. “Practical Aspects of Control and Treatment of Diarrhea in Calves”: Dr. John C. Simons, Torrington, Wyoming

Afternoon Schedule

1:00 P.M. - 3:00 P.M. **II. Breeding Soundness Evaluation in Bulls** – Mars, Jupiter. Registration Fee: \$10.00.

A. “Considerations in the Evaluation of Breeding

Soundness in Bulls”: Dr. William M. Durfey, Columbia, Missouri

B. “Suggested Criteria for Use in Evaluation of Beef Bulls to be Used in Natural Service”: Dr. Leslie Ball, Ft. Collins, Colorado

3:00 P.M. - 5:00 P.M. **III. Prostaglandins: Control of Estrus and Ovulation in Cattle.** Dr. Wayne D. Oxender and Dr. Bradley Sequin, East Lansing, Michigan. – Mars, Jupiter. Registration Fee: \$10.00.

Pre-Convention Seminars

Sponsored by the Academy of Veterinary Consultants

Saturday, December 7, 1974

9:00 A.M. - 4:30 P.M. – Venus Room. Dr. Albert S. Abdullah, President, Dalhart, Texas

9:00 A.M. Practical Nutrition: Dr. Dallas P. Horton, Jr., Ft. Collins, Colorado

12:00 Noon. Lunch.

1:30 P.M. Panel Discussion on Practical Nutrition. Dr. Albert S. Abdullah, Dalhart, Texas; Dr. Dallas P. Horton, Jr., Ft. Collins, Colorado; and Dr. Rodney L. Preston, Wooster, Ohio. Registration Fee: \$35.00.

Saturday, December 7, 1974

Morning Schedule

8:00 A.M. - 9:00 A.M. AABP Board of Directors' Breakfast – Taft Room

9:00 A.M. - 11:30 A.M. AABP Board of Directors Meeting – Garfield Room

Afternoon Schedule

12:00 P.M. - 1:30 P.M. AABP Board of Directors Luncheon – Taft Room.

1:30 P.M. - 5:00 P.M. AABP Committee Meetings – Oceanic Suites.

Committees and Chairmen:

Animal Technician – Dr. Sam Hutchins

Continuing Education – Dr. Leland Allenstein

Environment & Housing – Dr. Jack Shanks

Food & Drug – Dr. Robert Harris

Forward Planning – Dr. Ben Harrington

Health Management and Preconditioning – Dr. J. W. Sexton

Infectious Diseases – Dr. John Noordsy

Liaison & Protocol – Dr. John Herrick

Mastitis – Dr. James Jarrett

Publications – Dr. L. C. Allenstein

Nutrition – Dr. Otto Radostits

Reproduction – Dr. Lloyd Faulkner

Regulatory – Dr. Glen Hoffsis

The Program

THEME: FOOD ENERGY AND THE VETERINARIAN

Sunday, Dec. 8, 1974

Sunday, December 8, 1974

Morning Schedule

- 8:00 A.M. - 9:00 A.M. AABP Board of Directors Breakfast – Taft Room.
 9:00 A.M. - 11:30 A.M. AABP Board of Directors Meeting – Garfield Room.
 11:30 A.M. Sandwich Buffet – Compass Points

Afternoon Schedule

- 1:00 A.M. - 5:00 P.M. **Split Sessions.**
Dairy Section, Venus & Mars Rooms, Chairman: Dr. Lawrence E. Heider, Columbus, Ohio. Co-Chairman: Dr. James A. Jarrett, Rome, Georgia.
 1:00 P.M. "Teat Dips and Dry Cow Infusion Products Efficacy, Use and Misuse": Dr. Louis Newman, East Lansing, Michigan. 50 minutes + 10 minutes question and answer.
 2:00 P.M. "Milking Machine Function – Systems Analysis and Possible Relationship of Milking Machine to Mastitis": Dr. John Dahl, Madison, Wisconsin. 50 minutes + 10 minutes question and answer.
 3:00 P.M. "Mastitis Problems in Some Kentucky Dairy Herds and the Economic Implications": Dr. Jenks Britt, Russellville, Kentucky. 50 minutes + 10 minutes question and answer.
 4:00 P.M. "Cephalosporium in Mastitis Therapy": Dr. Gerald Hayes, Earlville, New York. 10 minutes.
 4:10 P.M. "Mastitis Pathogen Identification, Plates, Media, and Costs": Dr. Joseph Kowalski, Columbus, Ohio. 15 minutes and discussion.
 4:30 P.M. Panel composed of above speakers answer questions submitted to moderator from floor. 30 minutes.
Cow Calf Section, Jupiter Room, Chairman: Dr. Harrison Gardner, Columbus, Ohio. Co-Chairman: Dr. Otto M. Radostits, Saskatoon, Saskatchewan, Canada.
 1:00 P.M. "Bovine Leptospirosis – The Disease and its Control": Dr. Lyle E. Hanson, Urbana, Illinois.
 2:00 P.M. "Differential Diagnosis, Treatment and Prevention of Tetany in Cattle": Dr. David Kronfeld, Kennett Square, Pennsylvania.
 3:00 P.M. "The Starvation Syndrome": Dr. John King, Ithaca, New York.
 3:30 P.M. "Differential Diagnosis, Treatment and Prevention of Diarrhea in Brood Cows and Yearlings": Dr. Robert B. Miller, Columbia, Missouri.
 4:30 P.M. "Pulmonary Emphysema of Pastured Cattle": Dr. Earl O. Dickinson, Corvallis, Washington.
Feedlot Section, Oceanic Suites, Chairman: Dr. Warren E. Amling, London, Ohio. Co-Chairman: Dr. J. W. Sexton, Sumner, Iowa.

- 1:00 P.M. "Management and Preventive Medications of Replacement Calves and Yearlings": Dr. Clyde K. Smith, Wooster, Ohio.
 2:00 P.M. "Energy and Protein Requirements of Replacement and Feedlot Cattle": Dr. Rodney L. Preston,

Wooster, Ohio.

- 3:00 P.M. "Vitamin and Mineral Requirements and Clinical Signs of Deficiencies in Feedlot Cattle": Dr. Russell A. Frey, Manhattan, Kansas.
 4:00 P.M. "The Present and Future Status of Growth Stimulants in Feedlot Cattle": Dr. James E. Fox, Ashland, Ohio.
 4:30 P.M. "Acute and Chronic Gastric Tympany": Dr. Loren D. Kintner, Columbia, Missouri.

Evening Schedule

- 6:00 P.M. Cocktail Hour – Oceanic Suites, Promenade and Saturn.
 7:30 P.M. Banquet – Venus, Mars, Jupiter.
 9:00 P.M. Dance to the music of the Al Myers Combo and enjoy the entertainment of magician Del Ray.

Monday, Dec. 9, 1974

Morning Schedule

- 7:00 A.M. - 8:00 A.M. Continental Breakfast – Promenade and Oceanic Suites.
 8:30 A.M. - 12:00 Noon. **General Session.** Venus, Mars, Jupiter.
 8:00 A.M. Theme: "Food, Energy and the Veterinarian": **Chairman: Dr. Vernon L. Tharp, President Elect AABP, Columbus, Ohio.**
 Opening Remarks: Dr. L. Mac Cropsey, President, AABP, Golden, Colorado.
 8:10 A.M. Welcome to Ohio: Mr. Gene Abercrombie, Director, Ohio Department of Agriculture.
 8:15 A.M. **Keynote Address: Dr. Roy M. Kottman, Dean, College of Agriculture, Columbus, Ohio.**
 9:15 A.M. "The Present and Future Economic Outlook for Beef Production": Dr. Don Paarlberg, Washington, D.C.
 10:00 A.M. "The Present and Future Economic Prediction for Dairy Production": Dr. Robert E. Jacobson, Columbus, Ohio.
 10:30 A.M. "Veterinary Medicine's Role in World Health and Food Production": Dr. Harold B. Hubbard, Washington, D.C.
 11:00 A.M. "The Veterinarian's Position in the Economic Crisis": Dr. Duane Flack, Greeley, Colorado.
 11:30 A.M. - 12:00 A.M. "A Congressman's View": Hon. Jerry Litton, U.S. Congressman from Chillicothe, Mo.
 12:00 Noon - 2:00 P.M. Lunch on your own and visit exhibits.

Afternoon Schedule

- 2:00 P.M. - 4:00 P.M. **Split Sessions.**
Dairy Section, Venus and Mars. Chairman: Dr. Lawrence Heider, Columbus, Ohio. Co-Chairman: Dr. Otto Radostits, Saskatoon, Saskatchewan.
 2:00 P.M. "Nutrient Requirements of the Pre-Ruminant

Calf": Dr. J. T. Huber, East Lansing, Michigan. 50 minutes + 10 minutes question and answer.

3:00 P.M. "Milk Replacers for Pre-Ruminant Calves—Formulations, Problems, Economics": Dr. Laverne Schugel. 50 minutes + 10 minutes question and answer.

Cow Calf Section, Jupiter Room. Chairman: Dr. Harrison Gardner, Columbus, Ohio. Co-Chairman: Dr. Lloyd Faulkner, Ft. Collins, Colorado.

2:00 P.M. "Ovum Transfer and Embryonic Transplants in the Bovine Animal": Dr. Dick Schultz, St. Paul, Minn. 30 minutes + 10 minutes question and answer.

2:40 P.M. "Problems with the Exotic Cross": Dr. L. Mac Cropsey, Golden, Colorado.

3:30 P.M. "The Utility of Exotic Cattle in the Efficiency of Meat Production": Dr. Charles F. Parker, OARDC, Wooster, Ohio.

Feedlot Section, Oceanic Suites. Chairman: Dr. Warren E. Amling, London, Ohio. Co-Chairman: Dr. Jack Shanks, Damascus, Maryland.

2:00 P.M. "The Controlled Environment Feedlot": Dr. John Herrick, Ames, Iowa; Dr. Vernon L. Tharp, Columbus, Ohio.

2:40 P.M. "Processing Manure and its Utilization": Dr. John Herrick, Ames, Iowa; Dr. Vernon L. Tharp, Columbus, Ohio; Mr. Kenneth E. McClure, OARDC, Wooster, Ohio.

3:20 P.M. "Programmed Health": Dr. Arnold E. Hentschl, Harbor Beach, Michigan.

Evening Schedule

4:30 P.M. Busses leave Sheraton for The Ohio State University.
5:00 P.M. Beef barbecue in the Ball Room of the Ohio Union.

6:30 P.M. Clinical Demonstrations and Table Topics at The Ohio State University Veterinary Hospital, Chairman: Dr. Glen Hoffsis; Co-Chairmen: Dr. Charles Wallace and Dr. Dan Gingerich.

Ladies and guests attend theatrical production, Mershon Auditorium.

10:00 P.M. Buses leave The Ohio State University for Sheraton Hotel.

Tuesday, Dec. 10, 1974

Morning Schedule

7:30 A.M. Continental Breakfast — Presidential Suites.

8:30 A.M. - 11:15 A.M. **General Session, Venus, Mars, and Jupiter, Chairman: Dr. L. Mac Cropsey, Golden, Colorado; Co-Chairman: Dr. Glen Hoffsis, Columbus, Ohio.**

8:30 A.M. "Current Status of Brucellosis": Dr. Paul Becton, Hyattsville, Maryland.

9:00 A.M. "Re-test Procedures for T.B. Suspects": Dr. Lloyd D. Konyha, APHIS.

9:30 A.M. "Epidemiology and Regulatory Medicine": Dr.

Harry Goldstein, Columbus, Ohio.

10:00 A.M. "Current Status of Importation and Exportation Regulations—Foreign Germ Plasm": Dr. David E. Bartlett, Madison, Wisconsin.

10:30 A.M. "Can we Eradicate or Control Para-Tuberculosis?": Dr. Aubrey B. Larsen, Nevada, Iowa.

11:15 A.M. Visit exhibits and walk to Neil House Hotel for Business Luncheon.

12:00 Noon Luncheon and Annual Membership Meeting, The Neil House Hotel, Presidential Ballroom, Dr. L. Mac Cropsey presiding.

Afternoon Schedule

2:30 P.M. - 5:00 P.M. **General Session** — Venus, Mars, Jupiter, *Chairman: Dr. Vernon L. Tharp, Columbus, Ohio; Co-Chairman: Dr. John Noordsy, Manhattan, Kansas.*

2:30 P.M. "Anaplasmosis—Diagnosis, Treatment and Vaccination": Dr. Harry D. Anthony, Manhattan, Kansas.

3:00 P.M. "The Clostridial Diseases": Dr. Wallace B. Wren, Omaha, Nebraska.

3:45 P.M. - 4:45 P.M. "Salmonellosis—History, Signs, Differential Diagnosis, and Control": Dr. Vaughn A. Seaton, Ames, Iowa.

Evening Schedule

6:30 P.M. - 8:40 P.M. **Practice Concepts: "How We Propose to Recognize and Use Animal Health Technicians,"** Mars, Venus and Jupiter, *Chairman: Dr. Samuel Hutchins, South Barre, Vermont; Co-Chairman: Dr. Ben Harrington, Raleigh, North Carolina. Ten minute sessions presented by a committee member from each AABP District.*

6:30 P.M. District No. 1 — Dr. Roland Whitehead, Springville, N.Y.

6:40 P.M. District No. 2 — Dr. David L. Booth, Westminster, Maryland

6:50 P.M. District No. 3 — Dr. John M. Loftin, Sanitoba, Mississippi

7:00 P.M. District No. 4 — Dr. William L. Lovell, Bowling Green, Ky.

7:10 P.M. District No. 5 — Dr. Richard C. Koritansky, Fond du Lac, Wisconsin

7:20 P.M. District No. 6 — Dr. Earl S. Thompson, Clarks Grove, Minn.

7:30 P.M. District No. 7 — Dr. Richard H. Spencer, Scott City, Kansas

7:40 P.M. District No. 8 — Dr. James H. Denton, College Station, Texas

7:50 P.M. District No. 9 — Dr. Larry E. Rice, Arveda, Colorado

8:00 P.M. District No. 10 — Dr. Robert E. Dickerson, Tulare, California

8:10 P.M. District No. 11 — Dr. John B. Schmitt, Bozeman, Montana

8:20 P.M. District No. 12 — Dr. Otto M. Radostits, Saskatchewan, Canada

8:30 P.M. Summary by Dr. Lee West, Chicago, Illinois

8:40 P.M. **Hospitality Hour with exhibitors — Prizes. Exhibit Hall and Promenade.**

Wednesday, Dec. 11, 1974

Morning Schedule

- 7:00 A.M. - 8:00 A.M. Continental Breakfast. Presidential Suite.
- 8:00 A.M. - 12:00 Noon. **General Session** - Venus, Mars, Jupiter. "Rationale of Bovine Therapeutics Including Chemicals, Antibiotics, Fluid Balance, Topical and Internal Medications": *Chairman: Dr. Robert Harris, Turlock, California; Co-Chairman: Dr. Leland C. Allenstein, Whitewater, Wisconsin.*
- 8:00 A.M. "The FDA Bureau of Veterinary Medicine and You": Dr. H. Dwight Mercer, Great Falls, Virginia.
- 8:30 A.M. "The Use, Misuse and Abuse of Antimicrobial Agents": Dr. Thomas Powers, Columbus, Ohio.
- 9:30 A.M. "Therapeutics of Cortico-Steroids in the Bovine and Problems Surrounding Their Use": Dr. William Black, Guelph, Ontario.
- 10:00 A.M. "Newer Anthelmintic and Anti-Protozoan

- Agents": Dr. Dwight B. Bennett, W. Lafayette, Indiana.
- 10:30 A.M. "Toxicology—Pinpointing the Toxic Agents": Dr. Roger A. Yeary, Columbus, Ohio.
- 11:00 A.M. "Practical Fluid and Electrolyte Therapy and its Pathophysiological Basis": Dr. Dan Gingerich, Columbus, Ohio.
- 11:40 A.M. Questions: Panel of Speakers. Moderator: Dr. Harold Amstutz, W. Lafayette, Indiana.
- 11:55 A.M. Meeting officially closed by President AABP Dr. Vernon L. Tharp, Columbus, Ohio.
- 12:30 - 3:30 P.M. Board of Directors Meeting, Lunch and Post-convention Analysis - Taft and Garfield Rooms.
- 1:00 - 5:00 P.M. Post-Convention Tours (December 11). Buses leave from the Sheraton Hotel.
- (1) The Ohio Feedlot, South Charleston, Ohio.
- (2) Select Sires, Inc., Plain City, Ohio.
- NOTE: December 12-16 - Optional Post-convention Seminar, Vail, Colorado, Chairman: Dr. Ben Harrington; Co-Chairman: Dr. James Jarrett.

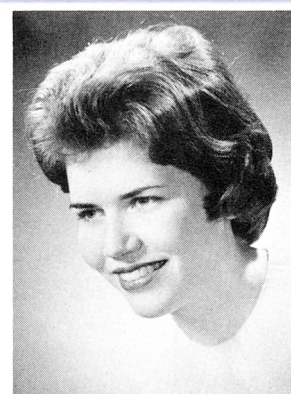
Ladies Activities



*Grace L. Tharp
Chairwoman*



*Linda S. Hoffsis
Co-Chairwoman*



*Martha Heider
Co-Chairwoman*

7th Annual Conference

The Buckeye women of Ohio greet you with genuine friendship. We look forward to meeting you and have planned an unusual program for your enjoyment.

By the hundreds, veterinarians, their spouses, and their guests will gather at Columbus, Ohio, in December for the AABP Convention. Plan now to join us and register early.

Our plans will continue to provide the tradition of excellence which you have come to expect. Planned is a four day, idea and action packed program for the ladies. We will offer a unique blend of exciting speakers, tours, demonstrations and delightful entertainment. By special arrangements, the AABP women will be the only guests of the newest tourist attraction in the area - "Ohio Village." You will have the opportunity to go back in time and imagine what life was like in Ohio in

1840. You will see the authentic costumes and buildings where you can walk and browse through the stores. Craftsmen will be working and lunch will be served to you (as they ate in that period) in the Towne Hall. This will be a good chance to see Ohio in this developmental period and to shop for mementoes of yesterday.

An evening of entertainment on the Ohio State University campus will feature a beef barbecue dinner in the Student Union Ballroom, tentatively followed by a professional presentation of "Godspell" in Mershon Auditorium.

Lunch will be at one of the most fashionable party houses, combined with a shopping tour in the comfortable atmosphere of Ohio's finest indoor shopping center where you can shop the 66 stores and boutiques.

A "Touch of Christmas" will feature a special

designer's imagination and talent. We promise you plenty of involvement and activities.

We want to assure you that all will be in readiness upon your arrival. This communication is designed to "touch base" with you and invite you to join us in an outstanding women's program planned for m'ladies of the A.A.B.P. Convention in December.

Ladies' breakfasts will be held in the Presidential Suites (Harrison Room) between eight and nine each morning.

Grace L. Tharp, Chairwoman

The Ohio Village Hotel houses both a small tavern for light refreshments and a complete dining room which will serve an authentic luncheon from the mid-eighteen hundreds within a few weeks.



A Message from the General and Program Chairman

In planning the 1974 Seventh Annual Conference of the American Association of Bovine Practitioners, it seemed appropriate to emphasize food and energy requirements and attempt to define the role of veterinary medicine in a socio-economic system aimed toward improving the quality of life in the animal kingdom for the ultimate benefit of man.

Until the second half of 1973, most of the now generation in the United States had never even dreamed of an energy crisis, nor its sudden impact on the availability and inflationary cost of fuel, food, clothing, housing, automobiles, machinery and accouterments and products of modern technology which we regard as necessities in modern society.

Experts tell us that the days of cheap, unlimited fuel are gone. It will test our ingenuity, research and technological productivity to replace coal, crude oil and natural gas as the major immediate source of energy. With energy requirements doubling every fifteen years, if we are to maintain our

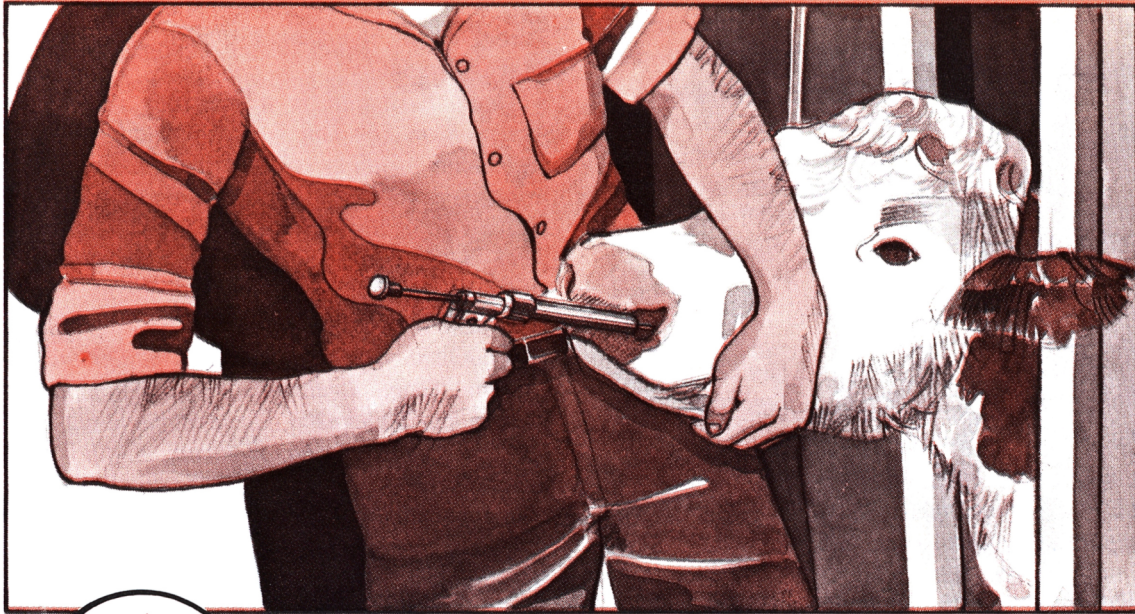
present standard of living, we will have to prove that anything is possible under the sun. It is said that the sun holds the secret. As in the process of photosynthesis, it annually fixes into organic matter five times the world's total energy needs and this represents only one-fourteenth of the total solar energy that falls on the earth. The potential is there if we can harness it.

As bovine practitioners, we know that the ruminant is a natural converter of plants to high quality nutrients which would otherwise be unusable. We are also aware that if the cattle industry is to survive the one to eight or ten conversion ratio and continue to be a major biological factor in converting solar energy to human food, veterinary medicine must play an intensive role in providing education research and clinical service programs essential to more efficient productivity. Our present conference is directed toward assisting bovine practitioners in achieving these goals.

Vernon L. Tharp, D.V.M.



NEW INTRANASAL VACCINE . . . for earlier, greater protection against IBR and PI-3.



NASAMUNE™-IP

Bovine Rhinotracheitis (Bovine Tissue Culture Origin) Parainfluenza-3 (Porcine Tissue Culture Origin) Vaccine, Modified Live Virus, INTRANASAL

New NASAMUNE-IP makes it possible to get the extra benefits that result from introducing the virus at a natural port of entry:

- Interferon production is stimulated and is present as early as 12 hours following administration.
- Secretory antibodies are also stimulated which provide intermediate protection.
- Circulating antibodies appear in approximately 10–14 days to provide high level, long term, systemic immunity.
- Safety and efficacy thoroughly documented in field trials involving hundreds of cattle.

V.I.P. (Veterinarians in Practice) choose

AFFILIATED
LABORATORIES DIVISION
WHITMOYER LABORATORIES, INC.
MYERSTOWN, PENNSYLVANIA 17067
SUBSIDIARY OF ROHM AND HAAS COMPANY



Guest Speakers

at the 7th Annual Conference—AABP

Keynote Address

Dr. Roy M. Kottman



Dr. Roy M. Kottman was appointed dean of the College of Agriculture and Home Economics at The Ohio State University and director of the Ohio Agricultural Research and Development Center

(formerly Ohio Agricultural Experiment Station) on June 1, 1960. He was named director of the Ohio Cooperative Extension Service on July 1, 1964.

In addition to these three top administrative posts, he holds the rank of professor of animal science.

Dean Kottman serves as a member of the university's Administrative Council and Council on Research and as a member of the State Soil and Water Conservation Commission.

Dean Kottman holds a Bachelor of Science degree in animal science from Iowa State University, a Master of Science degree in genetics from the University of Wisconsin, and a Ph.D. degree in animal breeding from Iowa State University. He served as associate dean of agriculture at Iowa State from 1954 to 1958 and as dean of the College of Agriculture, Forestry and Home Economics at West Virginia University and as director of the West Virginia Agricultural Experiment Station from 1958 to 1960.

While Dean Kottman's basic field is animal science, specifically genetics and breeding, his interests and activities encompass all aspects of education in agriculture, biology, and natural resources as well as research administration in the agricultural and biological sciences.

Dean Kottman is currently serving as national chairman of the legislative subcommittee of the experiment station committee on organization and policy, Division of Agriculture, National Association of State Universities and Land-Grant Colleges.

Dean Kottman is a member of the Board of

Directors of the Development Fund of The Ohio State University.

Dean Kottman is a member of the American Association for the Advancement of Science, the American Society of Animal Science and of the honorary societies, Sigma Xi and Phi Kappa Phi. He is a member of Gamma Sigma Delta and Alpha Zeta, agricultural honoraries. He is a member of the Board of Trustees of the Farm Film Foundation and is a member of the National Dairy Shrine Club, Ohio Agricultural Council, Executive Order of the Ohio Commodores, Torch Club and Pi Kappa Phi fraternity. He is an honorary member of the Rotary Club of Wooster, Ohio. In 1972 he received an honorary L.L.D. from The College of Wooster (Ohio). In January 1973 he received the National Limestone Institute's Distinguished Service Award for dedicated leadership and service to the development and progress of the nation's agriculture. He is currently listed in "Who's Who in America," "Leaders in American Science," "American Men of Science," "Who's Who in Higher Education," "Leaders in Education," and "Community Leaders of America."



Dr. Don Paarlberg

Dr. Don Paarlberg, M.S., Ph.D., is the director of agricultural economics, U.S.D.A.

A graduate of Cornell University, he was appointed by President Eisenhower as Assistant Secretary of Agriculture, U.S.D.A., in 1957 and Special Assistant to President Eisenhower in 1958.

He was instrumental in founding the "Food for Peace Program" and became coordinator of the program. He also served four years as the secretary of the National Agricultural Advisory Committee, two years as a member of the President's Committee on Foreign Economic Policy, and three years on the President's Advisory Committee on Economic Growth and Stability.

Dr. Paarlberg was appointed Distinguished Professor at Purdue University in 1961.

Outstanding Teacher awards, Purdue University, included the Sigma Delta Chi award for the Best of Purdue's Good Teachers, 1961; the D. Howard Doane award, 1966; the Federal Landbank Commemorative Medal for Outstanding Service to Agriculture, 1967; and the award for Outstanding Teaching Performance, Purdue, 1969.

Dr. Paarlberg has contributed over 100 publications and three books entitled: "Food," "American Farm Policy," and "Great Myths in Economics."

He is a widely known teacher, lecturer and public servant.



Dr. Harold B. Hubbard

Dr. Harold B. Hubbard, D.V.M., M.P.H., is regional adviser in veterinary medical education, Department of Human and Animal Health, Pan American Health Organization, Washington, D.C.

He received the D.V.M. degree from The Ohio State University and the M.P.H. degree from the University of California.

Dr. Hubbard was a large animal practitioner from 1955 to 1961, a member of the California Department of Public Health in 1962, and served on the faculty of the School of Veterinary Medicine at the University of Georgia from 1962 to 1968.

He has been with the Pan American Health Organization from 1968 to the present.



**Congressman
Jerry Litton**

Jerry Litton, 35, (D-Mo.) was elected November 1972 to represent the 6th District of Missouri in the 93rd Congress of the United States. Litton, a farmer and businessman, had been active in

politics, but this was his first bid for public office. He holds the seat vacated by retiring Congressman W. R. (Bill) Hull.

Congressman Litton was born in a three-room house in Lock Springs, Missouri, on May 12, 1937. He is a 1961 graduate of the University of Missouri with a BS in agriculture journalism and a minor in economics. While in high school and college, he worked part-time as a radio newscaster and newspaper farm editor.

He took a course in public speaking in high school to overcome his shyness. By the time he was 19, he was giving high school commencement addresses and speaking at major conventions throughout the country. He was elected state president and later national secretary of the Future Farmers of America.

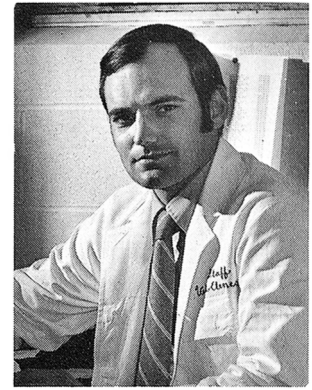
In college, he was the youngest ever elected president of his fraternity, was named to Who's Who in American Colleges and Universities, and received numerous leadership and scholarship honoraries. He was the youngest to be elected president of Performance Registry International (a world-wide cattle organization), the youngest and in the first group of 12 alumni selected for recognition by the University of Missouri, the youngest to receive the Citation of Merit from the Missouri College of Agriculture, the youngest named to the Governor's Advisory Council on Agriculture and the youngest named to the Missouri State Council on Education. He was elected vice president of the University of Missouri student body when only a sophomore.

Litton and his father own and operate the 500-acre Litton Charolais Ranch near Chillicothe, Missouri. Their ranch and modern livestock techniques have attracted world-wide attention. The operation they started on a shoestring now sells Charolais purebred breeding stock throughout the world. As a result of his agriculture background, Litton was named to the important House Agriculture Committee as a freshman Congressman.

Although serving his first term in public office, Litton has been active in politics since first serving as president of the University of Missouri Young Democrats, state director of the Youth for Kennedy for President, twice state youth director for Symington for Senator, the national committee for the Rural Americans for Johnson, Sixth District Finance Chairman for Symington for Senate and national director of the Youth for Symington when he made his bid for the Presidency in 1960.

Litton and his wife, the former Sharon Summer-ville, have two children, Linda and Scott, ages 10 and 9.

An Invitation from the Chairman-Arrangements Committee



The bovine practitioners of Ohio are anxious to show our organization that the cattle industry and cattle practice are viable in the eastern end of the Corn Belt.

We have made arrangements in anticipation of the largest registration of any AABP meeting to date. An adequate number of rooms are reserved in four downtown hotels, but you are urged to send in your room reservation card soon so that you will be sure of your first choice.

The banquet will be held Sunday evening in order to get everyone acquainted and relaxed to kick off the meeting. An excellent meal and a full evening of entertainment is planned.

So that everyone can get to the morning sessions on time, continental breakfasts will be provided Monday, Tuesday, and Wednesday mornings.

With all of the activities at the meeting, you will have to plan your schedule carefully to find time to enjoy Columbus' fine restaurants and varied entertainment. There will be entertainment nightly at Sadies in the Sheraton. For early arrivals, the Columbus Symphony will perform on Saturday evening, December 7, in the beautiful Ohio Theater in downtown Columbus.

The trip to the new nine million dollar Ohio State University Veterinary Hospital will include the table topics section of the program as well as a grand tour of the facility. The tour will be preceded by a barbecue prepared by the Animal Science Department held at the Ohio Student Union. Wives will join in the barbecue then go to the university's Mershon Auditorium to see a professional production of "Godspell."

Additional tours will be optional and will be given Wednesday afternoon after the close of the regular meeting. You may go to the unique Ohio Feedlot which has a capacity of 20,000 head (all under one roof!) This environmentally controlled facility also has an innovative manure digesting, processing, and recycling operation. You may also

see at nearby Select Sires one of the largest A.I. bull studs in the nation. Completed one year ago, their new facility features the latest in equipment and practical bull housing. Both of these tours are within 40 miles of Columbus.

Everything is shaping up well and it looks as though, in spite of the energy crisis, the Ohio convention will be the biggest and best yet. We hope that while here you will get a glimpse of Ohio's diversified agriculture and industry.

Welcome to Columbus, the heart of Ohio!

Glen F. Hoffsis, D.V.M., M.S.

INDEX OF ADVERTISERS

Bristol Laboratories	5
Merck	9
Schering	13
American Cyanamid	19
Pitman Moore	23
Biozyme	28, 29
Eaton Laboratories	35
Elanco	51
Upjohn	68, 69
Squibb	77
Chemagro	84, 85, 111
Affiliated Laboratories	97, 116, 117
Norden	105
Lea & Febiger	119
Ritchey	126
Fort Dodge	140, 141
Bristol Laboratories	Ins. Bk. Cover
Abbott	Bk. Cover



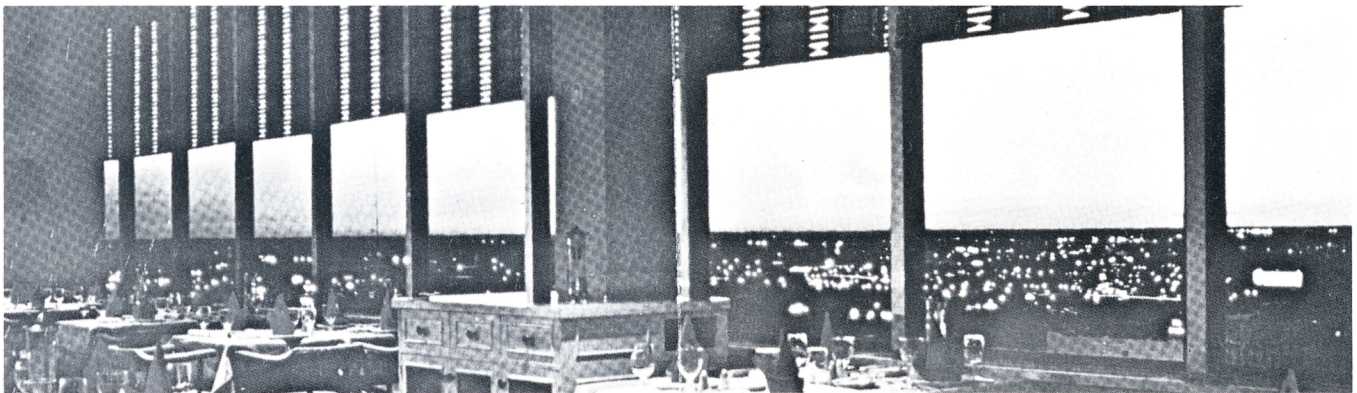
CONVENTION HQ

Sheraton-Columbus
Motor Hotel

Columbus, Ohio

Our rendezvous for our annual convention has great plans for all of us. Located on North Third Street, this 400-room hotel has an ideal central location and free garage parking in an on-property underground garage. Each spacious, softly carpeted guest room has remote-control TV and delightful all-season swimming is available.

The Celestial Ballroom can seat almost 2000 people. For entertainment, the night club, Sadie's Stage Door, features live music and your favorite cocktails, Monday through Saturday evenings. Telephone: 614-228-6060.





© Copyright American Association of Bovine Practitioners. Open access distribution

Columbus,
Ohio...

...the Middle of
Marketing America

Columbus, as a Capital City, is unique in that it did not become Ohio's Capital—the CAPITAL became COLUMBUS.

When the then youthful State of Ohio decided to seek a centrally located site for its Capital, the decision incited a number of pioneer settlements to contest spiritedly for the prize. Among the bidders was Franklinton, a lively trading center founded by Lucas Sullivant, a Virginian, in 1797 and now a part of Columbus' West Side. But the proposal of a syndicate of landowners who offered a site in a forest finally won out despite the inducements of land and money that were dangled before the State Legislators by rival towns in central Ohio.

The legislators on February 14, 1812, accepted the syndicate's offer to build the Capital on the "high bank east of the Scioto River directly opposite the town of Franklinton." Immediately the syndicate platted the village and cabins sprang up here and there about what was destined to become Capital Square. On February 22 the Legislature adopted the name "Columbus" for the embryo Capital, deciding to so honor America's discoverer after rejecting a long array of other suggested names.

The growth of the village was steady and at the end of the first year the inhabitants numbered 300. The population had increased to 700 by 1816, when the first Capitol and penitentiary were completed. In December of that year the legislators

held their first session in the new Capitol, which was situated in the southwest corner of the public square, the present State House grounds.

Within a few years Columbus quickly forged ahead of older towns of central Ohio. It absorbed its former rival, Franklinton, and in 1824 the seat of Franklin County was moved from that village to the east side of the river. Wyandots and other Indians of the Scioto Valley were friendly and lived at peace with the inhabitants of the new Capitol.

The stage coach period, which received great impetus when the National Highways reached Columbus in 1833, and the canal era, which came, also in the early 1830's, quickly brought recognition of Columbus as an important transportation center. The first boat arrived on the Columbus feeder of the Ohio and Erie Canal in September 1831 and inaugurated a service that provided a much needed outlet for agricultural products. In the midst of this local commercial flurry, Columbus became a city by act of the Legislature in 1834.

This period also brought the start of Ohio's new Capitol, the construction of which continued over a period of 22 years because of bickering over plans and appropriations by the Legislature. The cornerstone of the building, the present Capitol, was laid in 1839 and before the structure was completed in 1861 the old State House was destroyed by fire.

In the meantime, the era of the "iron horse" had dawned. The first train on the Columbus & Xenia Railroad chugged into the Capital on February 22, 1850, and soon Columbus capitalists became interested in building more steam lines, the result being that within two decades five railroads, almost entirely financed by Columbus money, were in operation.

General expansion of business and industry came with postwar prosperity. Six new banking houses and the first building and loan company were organized. High Street was paved, the horse car



Statue of Christopher Columbus in downtown Columbus. (Photo by Ed Young.)

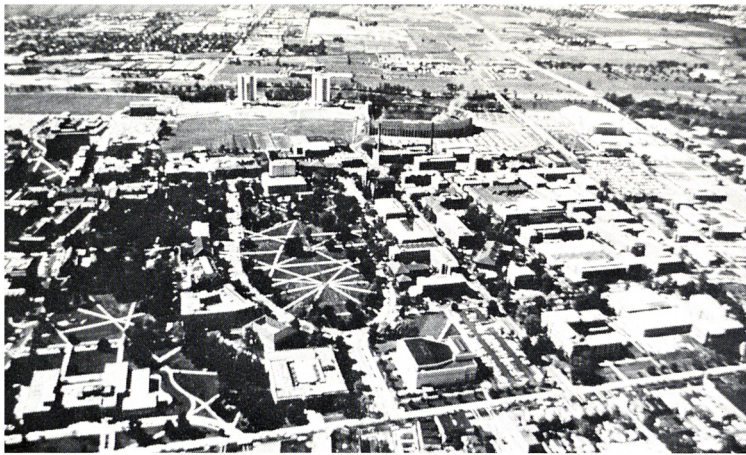
service was extended, the first water-works system was installed, and Columbus' high standing in the field of education was launched with the opening of the Ohio Agricultural and Mechanical College (now Ohio State University) in 1873. Columbus' industrial growth boomed prior to the turn of the century by the extensive manufacture of buggies. The advent of the 20th Century found the city a thriving industrial and commercial beehive.

Following the Spanish-American War, the city launched an intensive development of its civic resources. The community's most destructive flood came in 1913, and in its aftermath the city transformed the entire river front. In this period Columbus modernized the form of its city government.

Port Columbus, one of the country's finest aviation centers, was opened in 1929. The principal units of the Civic Center were built or started in this decade, and Ohio Stadium, one of the largest in the country, was completed at OSU.



Southern Ohio Farm Community. (Photo by Ed Young.)



The Ohio State University, looking west. (Photo by Ed Young.)

Climatological Summary – Columbus, Ohio

Columbus is located in the center of the state and in the drainage area of the Ohio River. The airport is located at the eastern boundary of the city approximately seven miles from the center of the business district. The ground elevation of the airport is 812 feet above sea level, latitude 40 deg. N. and longitude 83 deg. W.

Four nearly parallel streams run through or adjacent to the city. The Scioto River is the principal stream and flows from the northwest into the center of the city and then flows straight south toward the Ohio River. The Olentangy River runs almost due south and empties into the Scioto just west of the business district. Two minor streams run through portions of Columbus or skirt the eastern and southern fringes of the area. They are Alum Creek and Big Walnut Creek. Alum Creek empties into the Big Walnut southeast of the city and the Big Walnut empties into the Scioto a few miles downstream. The Scioto and Olentangy are gorge-like in character with very little flood plain and the two creeks have only a little more flood plain or bottom land.

The narrow valleys associated with the streams flowing through the city supply the only variation in the microclimate of the area. The city proper shows the typical metropolitan effect with shrubs and flowers blossoming earlier than in the immediate surroundings and in retarding light frost on clear quiet nights. Many small areas to the southeast and to the north and northeast show effects of air drainage as evidenced by the frequent formation of shallow ground fog at daybreak during the summer and fall months and the higher frequency of frost in the spring and fall.

The average date of the last freezing temperatures in the spring, within the city proper, is April 16, and the average date of the first freeze in the fall is October 31, but in the immediate surroundings there is much variation; for example, at Valley Crossing located at the southeastern outskirts of the city, the average date of the last 32 degree

temperature in the spring is May 2, while the average date of the first 32 degree temperature in the fall is October 12.

The records show a high frequency of calm or very low wind speeds during the late evening and early morning hours, from June through September. The rolling landscape is conducive to air drainage and from the Weather Bureau location at the airport the air drainage is toward the northwest with the wind direction indicated as southeast. Air drainage takes place at speeds generally four mph or less and frequently provides the only perceptible breeze during the night.

Columbus is located in the area of changeable weather. Air masses from central and northwest Canada frequently invade this region. The tropical Gulf masses often reach central Ohio during the summer and to a much lesser extent in the fall and winter. There are also occasional weather changes brought about by cool outbreaks from the Hudson Bay region of Canada, especially during the spring months. At infrequent intervals the general circulation will bring showers or snow to Columbus from the Atlantic. Although Columbus does not have a “wet” or “dry” season as such, the month of October has a higher frequency of light rainfall than any other month and comes closest to providing a normal dry period.

Source: United States Department of Commerce Weather Bureau; Prepared by The Columbus Area Chamber of Commerce.

To the American Association of Bovine Practitioners

As Mayor of the City of Columbus, it is my pleasure and honor to welcome the American Association of Bovine Practitioners to our city.

We are fortunate in having your meeting here in our community and hope that every success is enjoyed at this affair.

I hope you will take the time to see the many points of interest around our city, such as the new Ohio Village and the Ohio Historical Museum, the Center of Science and Industry, German Village and many others.

On behalf of the community, I offer a most gracious welcome and my sincere best wishes.

Cordially yours,

Tom Moody
Tom Moody
Mayor

from Norden...

SCOURVAX-REO[®]

A major breakthrough against calf scours

'Scourvax-Reo', the world's first calf scours vaccine, effectively immunizes against early scours caused by reovirus, one of many causes of calf diarrhea. This easily administered, modified live virus oral vaccine protects both beef and dairy calves against neonatal calf diarrhea.

Reovirus usually strikes within one to five days after birth of the calf, following a brief incubation period. So protection must be early and quick. A single dose of 'Scourvax-Reo', administered orally within the first 24 hours, protects against reoviral infection.



Supplied: 50(5 x 10's)
single 4 ml. doses
with diluent and syringes.



Pat. Pend.

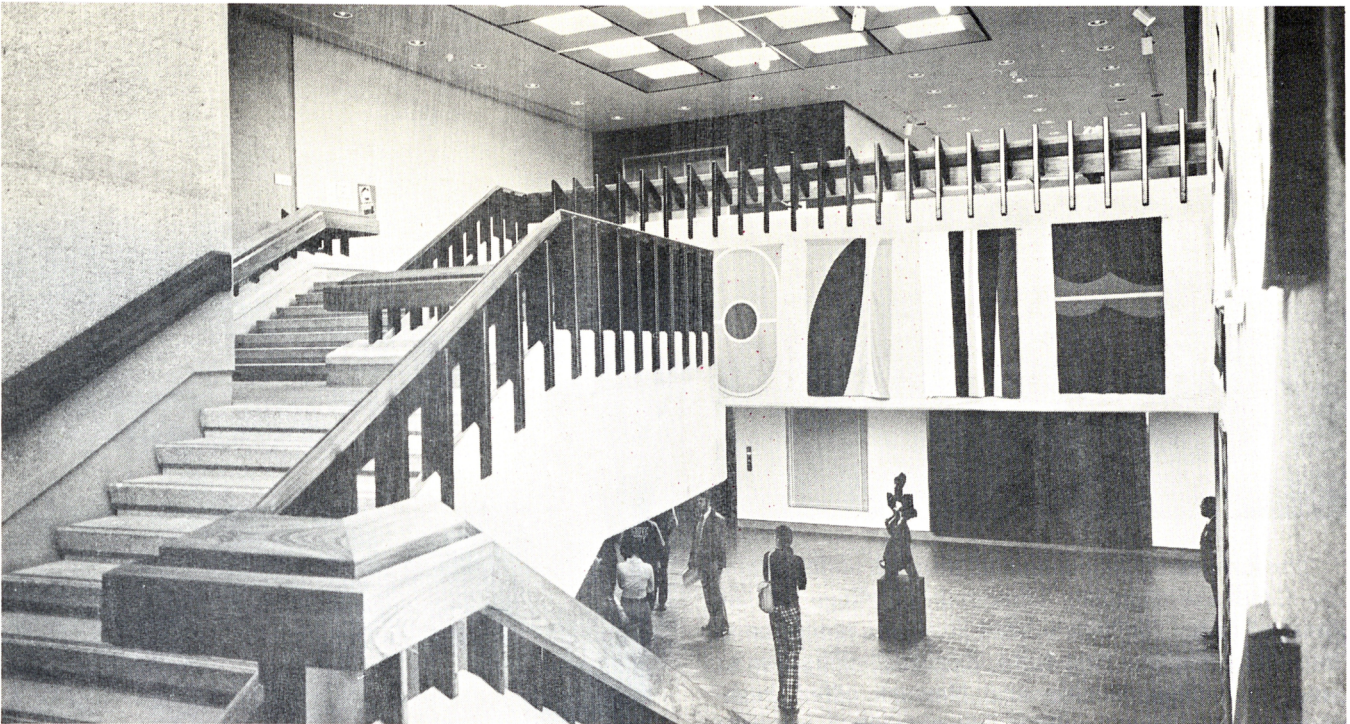


OHIO STATE UNIVERSITY

Ohio State University was founded in 1870 as the Ohio Agricultural and Mechanical College under provisions of the Land-Grant Act signed by President Lincoln on July 2, 1862. The legislation gave public land to the states. From sale of the land, the states were to finance colleges whose “leading object” was to “promote the liberal and practical education of the industrial classes,” primarily in the areas of agriculture and mechanics. Classes began on Sept. 17, 1873, with 24

students. Later, in 1878, the first class was graduated and the institution adopted a new name—The Ohio State University.

From its original 331 acres and one building, the main campus has expanded to more than 3,300 acres and 345 buildings. Today, Ohio State’s lands, buildings and equipment, used by 47,000 students, 16,000 employees and countless visitors, comprise a city within the larger city of Columbus, the state capital.

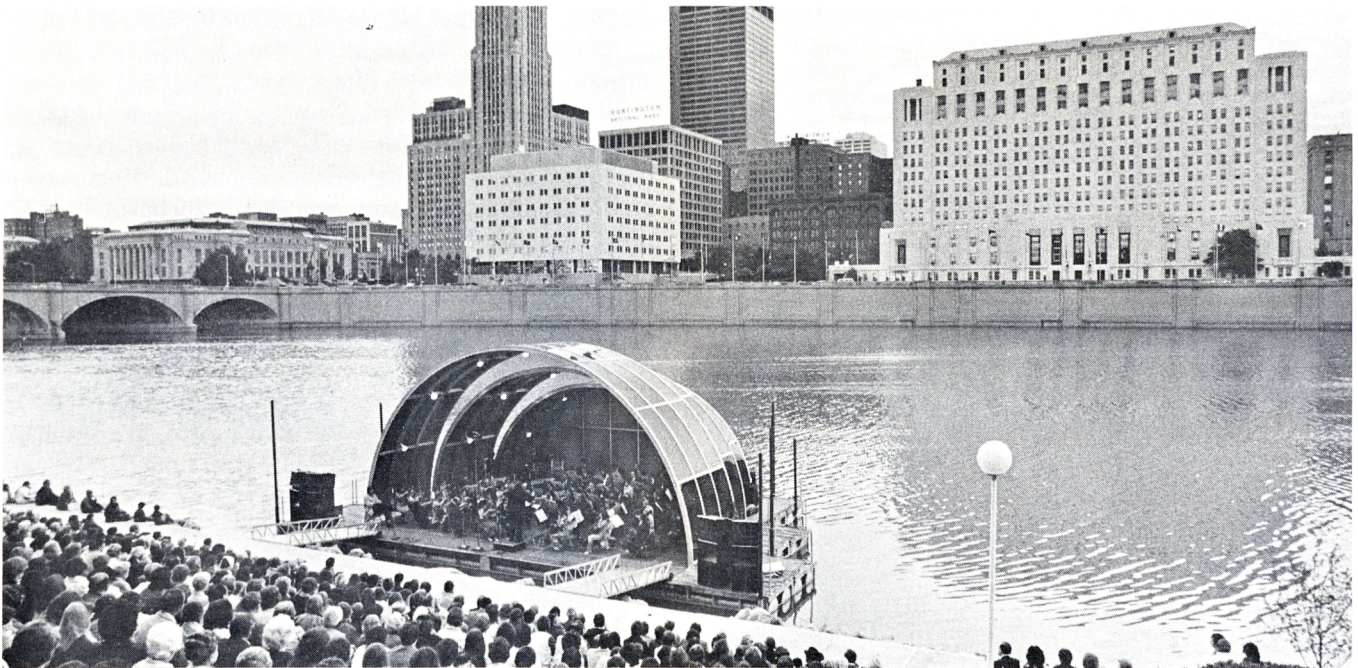


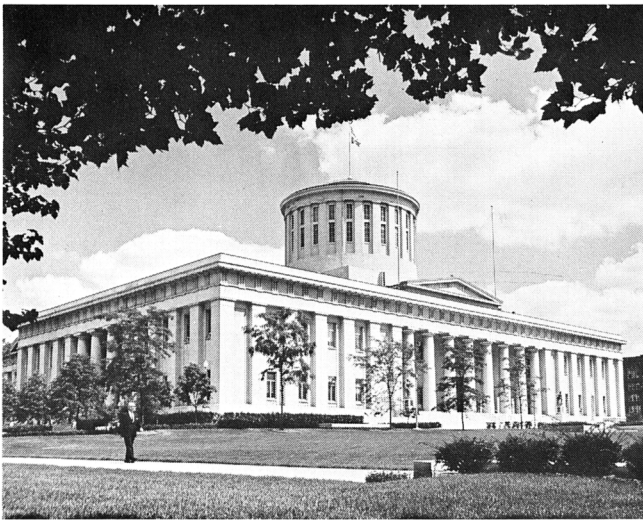
About "Ohio State"

The Ohio State University is a comprehensive, public-assisted urban university, founded in 1870 with funds provided through the Land-Grant Act. With 47,181 students, the main campus at Columbus has the largest enrollment of any campus in the nation.

As a comprehensive university, Ohio State offers courses in the fine arts, sciences and humanities as well as in all major professional fields. It is the only university in the state which

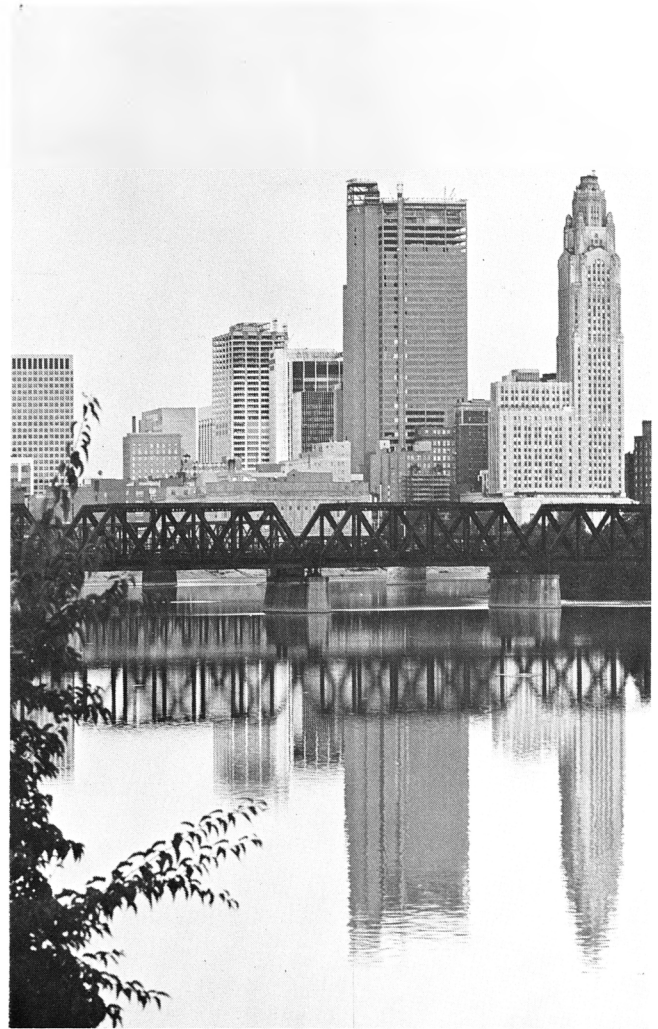
offers degree programs in agriculture, geodetic sciences, medical communications, medical illustration, occupational therapy, optometry and veterinary medicine. Ohio State has an evening degree program and opportunities for people age 65 and older to attend classes without paying fees. Through these, as well as a neonatal care center, a child day care program, and conferences and short courses for persons engaged in almost every occupation, Ohio State provides education and services for all ages.





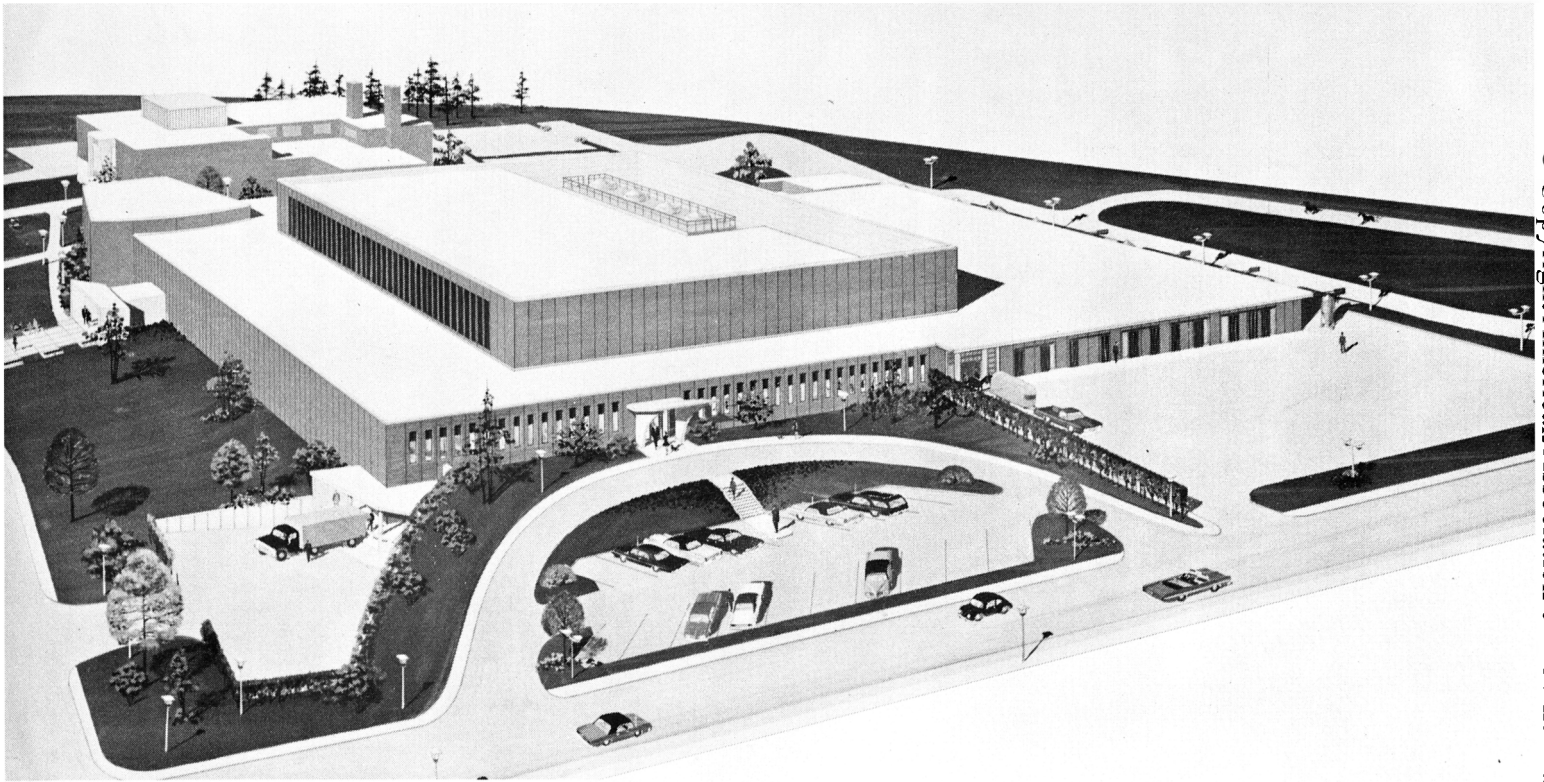
The university is organized into 16 colleges and the Graduate School. University College is the portal of entry for high school students enrolling at Ohio State for the first time. Regional campuses at Lima, Mansfield, Marion and Newark offer freshman- and sophomore-level courses that prepare students for continuing their work at the Columbus campus. The Agricultural Technical Institute at Wooster has the university's only two-year associate degree programs.

As the principal center for graduate and professional education in the state, the university grants nearly 60 percent of all the doctoral degrees awarded by Ohio's state-assisted institutions of higher education. The Association of American Universities, in its most recent comparison of member institutions, indicated that Ohio State is seventh in the nation in the number of Ph.D. degrees conferred (676 in 1970-71).



Supporting both graduate and undergraduate teaching at Ohio State is an extensive research program in 111 fields, amounting to \$22 million in annual expenditures. Many research programs are funded by the Federal Government. Increasingly, however, support for vital research activities is being provided by corporations, foundations, non-profit associations and agencies of state government. In 1972, the most recent reporting year, Ohio State ranked 14th among U.S. colleges and universities and eighth among state-assisted universities in the amount of federal support received (\$47,875,000).

One of 71 land-grant institutions of higher education, Ohio State is committed to serving people of every economic level and interest through agencies such as the Ohio Cooperative Extension Service, the Division of Continuing Education and the Academy for Contemporary Problems. Through these and more than 179,000 living alumni, Ohio State's programs are translated into public service around the world.



Photos by Dean Roy M. Kottman, College of Agriculture, The Ohio State University.

OHIO STATE UNIVERSITY'S New Veterinary Teaching Hospital

(Clinical demonstrations and table topics will be presented at the hospital on Monday evening, December 9, commencing at 6:30 p.m.)

Gross square feet — 220,000; Cost — \$9,000,000; Start of construction — January, 1970; Move in — June, 1973; 3 floors — basement, first floor (main hospital), penthouse (mechanical equipment).

It contains all the features and facilities found in modern human hospitals: business offices; waiting room; pharmacy; central sterile supply; central systems for O₂, nitrogen, compressed air, and vacuum; provisions made for closed-circuit educational TV and biomedical electronic patient

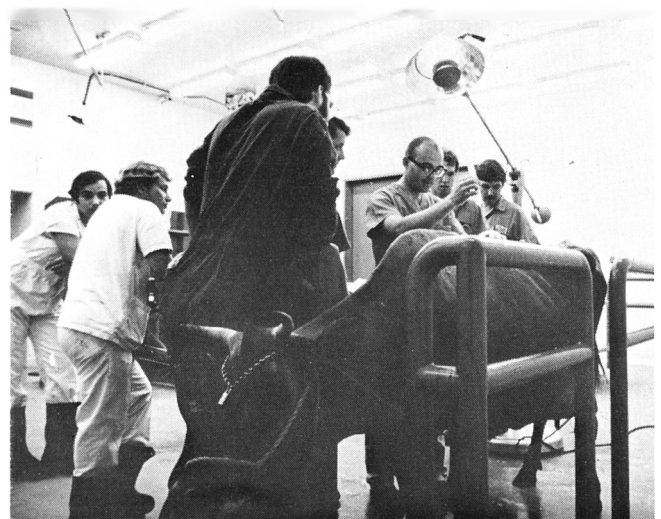
monitoring; radiology; clinical pathology laboratories; specialized examination and treatment areas, i.e., heart catheterization, electro-diagnostic, cast room, radiation therapy; and patient areas for hospitalized cases.

Small (Companion) Animals: 5 operating rooms; 13 wards (17 cages each) for patients; 2 wards for intensive care; and 1 large teaching laboratory.

Large Animals: 90 stalls (including 10 isolation stalls); 32 stanchions for dairy cattle; 4 operating rooms (hydraulic tables); 1 diagnostic room; 2



Ambulatory cars being restocked. Eight ambulatory clinicians operate out of the main hospital and the Marysville branch.



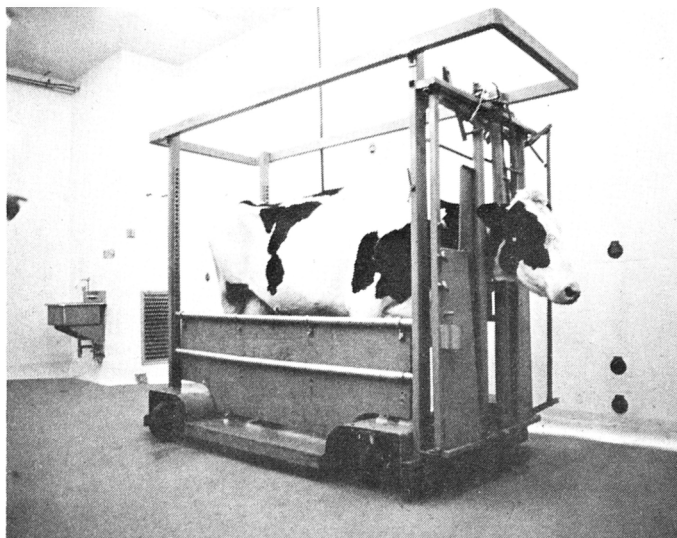
Dr. Charles Wallace demonstrates the paravertebral nerve block.



Dr. Charles Wallace examines a bull.

exam areas; 2 teaching laboratories; a 94 yard long corridor (teaching demonstrations); and an automatic mechanical waste removal system.

Radiology: 3 rooms for small animal x-ray procedures; 1 room for large animal x-ray procedures; film processing room; and a radiation therapy room containing a cesium unit.



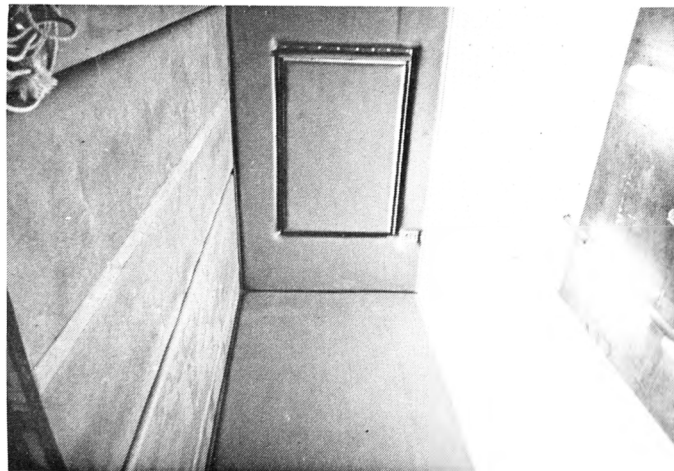
The cattle transporter in use.

Clinical Pathology Laboratory: laboratories for microbiology, parasitology, virology, chemistry, toxicology, radioisotope and serology.

Research Laboratories: 12 modules, each one consists of a laboratory room and an animal room.

Auditorium: 286 seats.

Auto-didactic Teaching Laboratory: carrels for self-learning; TV viewing areas; and a small group teaching library of AT materials.



Inside a padded recovery stall. Three such stalls are in strategic locations.

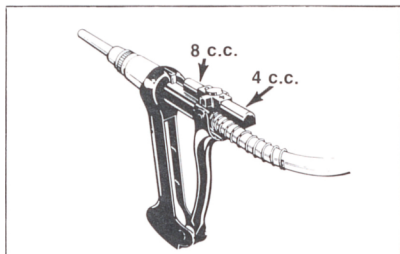
SPOTTON[®]

20% Ready-To-Use Solution

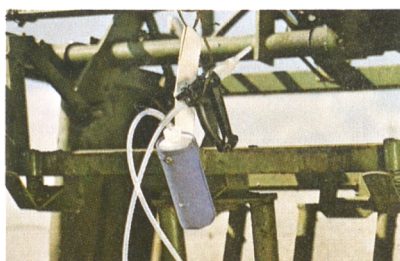
Here's the most unique advancement in grub control since Chemagro first introduced systemic grubicides 12 years ago: SPOTTON Cattle Insecticide, the grubfighter, the new concentrated formulation of fenthion that enables feedlot or cow-calf operators to treat more cattle in less time with less work.



SPOTTON Insecticide is so concentrated that dosage is measured in c.c.'s rather than ounces.



The applicator gun is a lightweight, rugged syringe with 4 c.c. and 8 c.c. dosage adjustments.



Gun and bottle holster are easily accessible suspended from the squeeze chute.



For complete mobility, both bottle and gun holster can be worn on the applicator's belt.

Ultra-Low Volume Dosage

SPOTTON 20% Ready-to-Use Solution is so concentrated that dosage is measured in c.c.'s rather than ounces. One pint container will treat approximately the same number of cattle as a gallon of pour-on.

Versatile

SPOTTON Insecticide is so convenient-to-use that it allows cattlemen more versatility while working cattle. Gun can either be worn on the hip or suspended from the squeeze chute gate.

Super-Accurate Application

Unlike messy pour-ons, SPOTTON Cattle Insecticide is applied with a special syringe that fills automatically. The SPOTTON insecticide applicator gun is adjustable to deliver 4 c.c. or 8 c.c. dosages. The amount of SPOTTON solution each animal receives on the back depends upon its weight: 4 c.c.'s for calves from 150-300 lbs.; 8 c.c.'s for animals

from 301-600 lbs. Dosage is metered automatically, so there's less chance of over or under dosing.

Proved Effective

Years of research and testing have gone into developing this new, improved ultra-low volume method of controlling grubs. Twenty-one tests involving thousands of cattle of all ages and sizes, under field conditions, produced grub control averaging 98% efficacy.

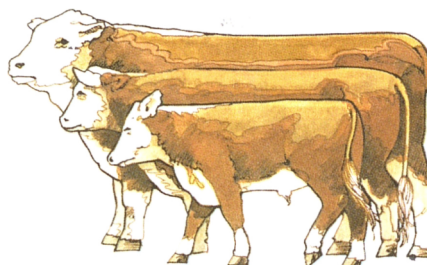
Recommend SPOTTON, the grubfighter

Whether you act on a consulting or call basis with feedlots or cow-calf operations, SPOTTON Cattle Insecticide is worth looking into. Ask your animal health supplier for more details, or contact:

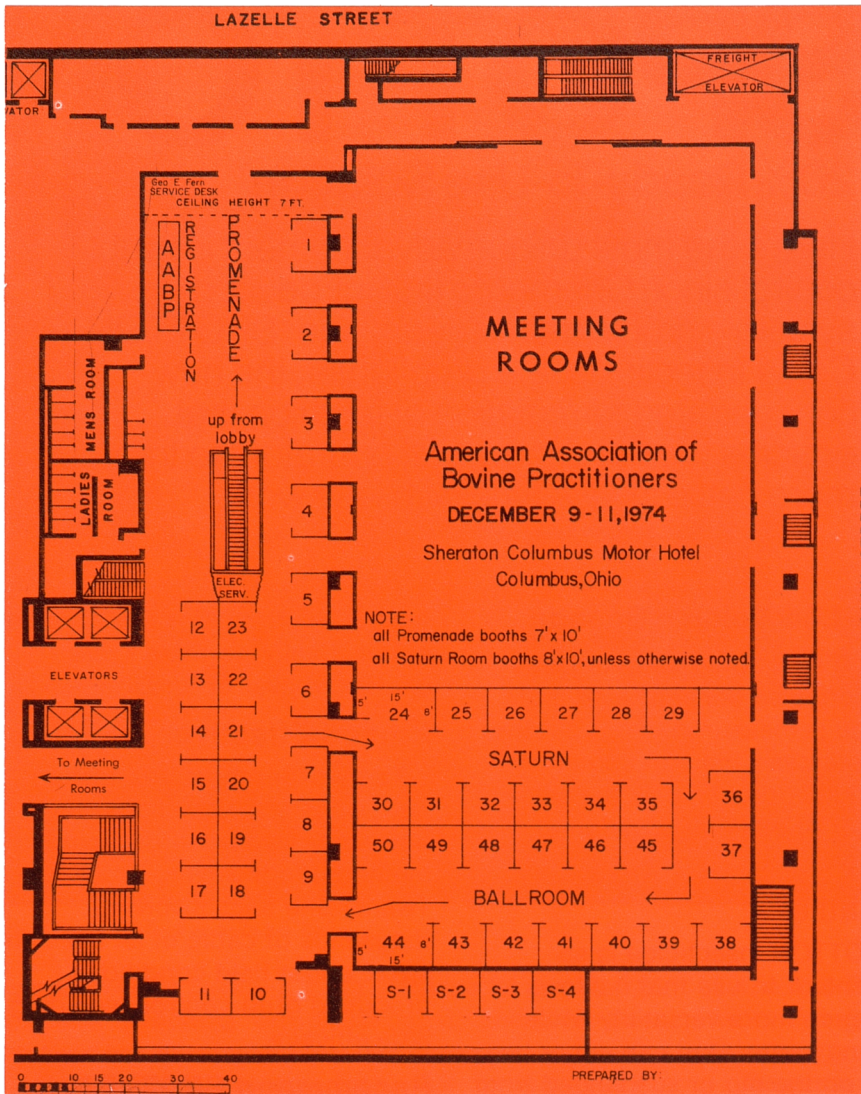


Animal Health Department
Chemagro Division of Baychem Corporation
Box 2037, Shawnee Mission, Kansas 66201

the grubfighter



AABP Conference Exhibitors



*Samuel Hutchins, III, D.V.M.
Chairman, Exhibits Committee*

The AABP wishes to acknowledge the support of the companies listed below for the forthcoming convention.

Albion Laboratories, Inc.
101 N. Main, P.O. Box E, Clearfield, Utah 84015
Booth 43

Albion will be displaying its complete line of unique veterinary pharmaceuticals, including Curecal-Feline. Many of the pharmaceuticals incorporate Albion's pioneering research into the field of chelation.

IMPORTANT NOTICE

The exhibits area will be open at the following time schedules:

- Sunday, December 8; 2:00 p.m. - 6:00 p.m.
- Monday, December 9; 8:00 a.m. - 4:30 p.m.
- Tuesday, December 10; 8:00 a.m. - 5:30 p.m.,
8:40 p.m. - 9:40 p.m.
- Wednesday, December 11; 8:00 a.m. - 1:00 p.m.

**American Cyanamid Company
Agricultural Division**
P.O. Box 400, Princeton, N.J. 08540
Booths 7, 8, and 9

American Cyanamid booths will feature PVP products RIPERCOL-L and BO-ANAR[®] for cattle. There will be constant showings of new films, including a report on lungworm infections from Colorado.

Animal Nutrition, Inc.
6608 West Main St., Belleville, Ill. 62223
Booth 10

Organized by veterinarians for veterinarians, the company renders services designed to assist the veterinarian with improvement of total herd health based on modern sound nutrition.

Astoria Fibra-Steel, Inc.
P.O. Box 726, Astoria, Ill. 61501
Booths 36 and 37

Astoria will be exhibiting the "Super" Insert. The "Super" Insert has as standard equipment, easy to clean Gelcoat Finished Interior, Thermostat Temperature Control, and

spring-loaded doors for easy opening. Four other models of Mobile Veterinary Clinics are available. Visit our booth for information.

Beecham-Massengill Pharmaceuticals
501-551 Fifth St., Bristol, Tenn. 37620
Booth 12

Beecham-Massengill Pharmaceuticals' Veterinary Division will feature the latest developments in bovine pharmaceuticals as well as a number of ever-popular products.

Bio-Ceutic Laboratories, Inc.
2621 N. Belt Highway, St. Joseph, Missouri 64502
Booth 16

Continuous product improvement based on the changing needs of the large animal veterinarian will be available for the practitioner's evaluation. New combination biologicals and improved dosage forms of Biomycin will be featured.

Biozyme Enterprises
St. Joseph, Missouri 64504
Booth 6

Vita Ferm, a new dimension in cattle nutrition, combines vitamins, minerals, trace elements, and digestive aids to help correct malnutrition, which is responsible for 85% of cattle problems. Better herd health is realized by users of the Vita Ferm system on a life-cycle basis. Fed free choice in weatherproof dispensers.

Bowie Mfg., Inc.
313 South Hancock, Lake City, Iowa 51449
Booths 30, 31, 49, and 50

See the 1975 Bowie Mobile Clinic Models designed especially for the bovine practitioner. On display will be the EX350—"King of Convenience"—greatest practice ease—Maximum carrying capacity—Selected by more veterinarians than all others combined. The Super Mini—"The Only Professional Profile." Luxury and convenience of the finest office. Easy-pull all fiberglass drawers for quick access to all storage. Created for the bovine practitioner.

Bristol Laboratories
P.O. Box 657, Syracuse, New York 13201
Booth 39

Hetacin-K for intramammary infusion will be on display and representatives from Bristol Laboratories will be available to discuss the various aspects of this unique drug.

Burns-Biotec Laboratories
7711 Oakport St., Oakland, California 94621
Booth 4

Featuring new concepts of packaging and production methods for large animal biologicals and selected pharmaceutical specialties. Detail and literature available from our representatives. Please visit our booth for current new product information.

W. A. Butler Co.
440 Fisher Road, Columbus, Ohio 43228
Booths 24 and 25

The W. A. Butler Company offers the widest selection of veterinary pharmaceuticals, biologicals, instruments, equipment, accessories, devices, etc., from a single source. Featured at our exhibit will be several new products having specific bovine application. We anticipate the pleasure of your visit.

Diamond Laboratories, Inc.
2538 SE 43rd Street, Des Moines, Iowa 50304
Booths 47 and 48

Diamond's long line of large animal health products will be displayed.

Eaton Veterinary Laboratories
P.O. Box 191, Norwich, New York 13815
Booth 21

This exhibit will include The Great Moments in Veterinary Medicine series and the Aesculapean Staff Monograph. Reproductions of these paintings will be available at Eaton's booth. Tying in with this art theme, Eaton will be announcing a veterinary art contest for veterinarians and their families. Complete details available at the booth plus product information on Eaton's Nitrofurantoin pharmaceuticals.

Elanco Products Co.
P.O. Box 1750, Indianapolis, Indiana 46206
Booth 44

Exhibit will feature the Elanco line of large animal antibiotics: Tylan 200 for injection; Tylan plus vitamins; Tylan plus neomycin eye powder.

For-Most, Inc.
Box 322, Hawarden, Iowa 51023
Booth 29

Our line of For-Most Fine Equipment is being used by many veterinarians. Many are dealers, recommending and selling our equipment to their clients. The For-Most Model 150 Portable Squeeze Chute has proven to be a valued piece of equipment for both veterinarians and farmers in handling livestock.

Fort Dodge Laboratories
Fort Dodge, Iowa 50501
Booth 1

Become acquainted with the complete line of cattle biologicals and pharmaceuticals from Fort Dodge Laboratories. Join us and learn all the facts about the improved "Rea-Plex" and new "BVD Vaccine." Also on display will be "Septobac," "TriVib," and "Longicil." For your dairy needs, get the latest information on "Nolvasan" teat dip and "Cal Dextro." We look forward to meeting with you.

Haver-Lockhart Laboratories
P.O. Box 390, Shawnee Mission, Kansas 66201
Booth 13

Haver-Lockhart will display their broad line of pharmaceuticals and biologicals for the bovine practitioner. Also featured will be Chemagro SPOT-ON for control of cattle grubs. Representative items from the large line of Haver-Lockhart instruments, surgical supplies, and hospital equipment will be displayed. Professional services representatives will be present.

Hoffmann-La Roche, Inc.
340 Kingsland St., Nutley, N.J. 07110
Booth 5

Roche will feature its Injacom^R AD₂, Injacom^R Mega A and Albon^R, (sulfadimethoxine) line of products for beef and dairy cattle.

Jensen-Salsbery Laboratories
520 West 21st St., Kansas City, Missouri 64141
Booths 18 and 19

Our display will contain information dealing with Jensen-Salsbery's biological and pharmaceutical products.

Dr. Jorgensen Laboratories
Box 872, Loveland, Colorado 80537
Booth 33

Featuring our new zig zag Fetal Extractor, as well as many other special instruments by Hauptner. Our new sterile cassette suture packs with all types of suture by Braun. Suture with swaged-on needles, in convenient packaging.

The Magrath Company
P.O. Box 148, McCook, Nebraska 69001
Booth 32

Specialized veterinary instruments and equipment.

Merck Professional Veterinary Products
126 E. Lincoln Ave., Rahway, New Jersey 07065
Booth 45 and 46

The Merck Professional Veterinary Products Department invites all veterinarians to visit our exhibit and discover the new worming systems of the '70's. Our trained and experienced personnel will be available to discuss areas of mutual interest including: bovine coccidiosis, antibacterials, and anthelmintics.

National Laboratories Corp.
1721 Baltimore Ave., Kansas City, Missouri 64108
Booth 42

Aminocid, Aminocid B-30, Analate, Boroform Spray, Cocci B.O.T. 100, Cocci B.O.T. 270, Ergonovine Maleate, First Aid Spray, Pelizone Ointment, Phosphan Solution, Povidol Solution, Prolipin Plus, Rubrozone, Uteracon and Wound Protector.

NORCAL
5927 Del Rey Court, Santa Rosa, Calif. 95405
Booth 11

Norcal Veterinary Specialties presents a time-saving electronic thermometer ideally suited for rapid herd screening, plus a variety of useful surgical products. A new and effective approach to continuing education will also be featured.

Norden Laboratories
601 W. Cornhusker Hwy., Lincoln, Nebr. 68521
Booth 23

Norden personnel will be available to discuss current and future product development with emphasis on the role of reo- and coronavirus in calf scours.

Pitman-Moore, Inc.
P.O. Box 344, Washington Crossing, N.J. 08560
Booth 22

The Pitman-Moore exhibit will feature a variety of its large animal products including the new MASTASSAY* Diagnostic Test. This bacteriological media aids rapid diagnosis of bovine mastitis. Representatives will be present to offer literature and any information required on our full product line.

*Trademark

Porta-Vet Industries, Inc.
512 Grand Blvd., Cedar Falls, Iowa 50613
Booths 27 and 28

Porta-Vet has an all new, superbly designed, totally

self-contained clinic (hot water, day and night heaters). Economical, efficient, and increases professional prestige. Our all-fiberglass exterior and formica interior assures all-weather protection and ease of cleaning. The 1974 features include systemized storage on a low profile for clear view to rear.

Rachelle Laboratories, Inc.
700 Henry Ford Ave., Long Beach, Calif. 90801
Booth 35

"A carry-in display featuring Aquachel Injection and Tetrachel-Vet Powders."

Ranger
Division of Delphi Products Company, Inc.
P.O. Box 256, Delphi, Indiana 46923
Booth 38

The Ranger Portable Livestock Chute will be featured in our exhibit this year and will include several model changes which have proven to increase the speed of chute operation and safety of chute operator and animal.

Ritchey Manufacturing Co.
Rt. 3, Box 88, Brighton, Colorado 80601
Booth 15

The world's most practical system of livestock identification. The Ritchey Flexible Locking Head Ear Tag will be featured.

Schering Corporation
Galloping Hill Rd., Kenilworth, New Jersey 07033
Booth 34

Schering invites all members and guests of the Convention to visit our exhibit. Professional service representatives will be available at the meeting to discuss with you Schering Veterinary line of outstanding dairy products such as NAQUASONER^R, METIBIOTIC^R and other Schering products.

Schuyler Laboratories, Inc.
1000 Macomb Rd., Box 228, Rushville, Ill. 62681
Booth 40

Schuyler Laboratories, Inc., Rushville, Ill., will be showing and explaining their various bulk chemicals and pharmaceuticals that are repackaged or manufactured and distributed across the United States. Displayed will be various mixers and a portable complete sterile laboratory.

E. R. Squibb & Sons
P.O. Box 4000, Princeton, New Jersey 08540
Booth 3

Emphasis will be on Squibb's new mastitis product, contract agents and Weck Surgical Instruments. We invite all veterinarians to visit our exhibit.

3M Company — Animal Care Products
3M Center, 220-7W, St. Paul, Minnesota 55101
Booth 17

3M Company welcomes attendees to our booth. We will be displaying our line of animal health care products with emphasis on 3M brand cattle and calf ear tags.

Twin A. A. Cutlery Co.
308 N. Buckeye, Box 429, Abilene, Kansas 67410
Booth 26

Professional necropsy and hoof knives; steels, cleavers, saws

with spun aluminum handles; professional nippers and knives with nylon handles; also all types of household cutlery, scissors, pocket and hunting knives, sharpening tools and many other items available will be shown. All are guaranteed.

The Upjohn Co.

7000 Portage Rd., Kalamazoo, Michigan 49001
Booth 2

From the strong red line of Upjohn veterinary products.

Veterinary Medicine/Small Animal Clinician

144 North Nettleton, Bonner Springs, Kansas 66012
Booth 14

This exhibit will feature the monthly professional journal VM/SAC, books and manuals for practitioners in both large and small animal practice. Editor will be on hand to discuss preparation and submission of manuscripts for publication in VM/SAC.

Hamilton Pharmacal Co.
Division of West Agro-Chemical, Inc.
1900 West 47th St., Suite 324, Westwood, Kansas 66205
Booth 20

The products to be featured include: (1) Quartermaster[®] Dry Cow Therapy, (2) Bovadine[®] Teat Dip, (3) Iosan[®] Udder Wash.

Wohler Livestock Products Company

Box 5223, San Angelo, Texas 76901
Booth 41

Wohler Livestock Products Company is a new company that has led in the development and distribution of specialized force feeding and dosing equipment and supplies used extensively in the cattle feeding industry. Expanding on initial successes, Wohler Livestock Products Company has developed a very innovative pistol grip emasculator, an excellent calf puller and a number of other items which will be of interest to members of the AABP.

Conference Committees

GENERAL COMMITTEE:

- Dr. Vernon L. Tharp (Chairman), Ohio
- Dr. Harold Amstutz, Indiana
- Dr. L. Mac Cropsey, Colorado
- Dr. Ben D. Harrington, North Carolina
- Dr. Lee C. Allenstein, Wisconsin
- Dr. Samuel Hutchins III, Vermont
- Dr. Jack E. Shanks, Maryland
- Dr. James A. Jarrett, Georgia
- Dr. Glenn F. Hoffsis, Ohio
- Dr. Robert H. Keith, Wisconsin
- Dr. Joseph W. Sexton, Iowa
- Dr. John L. Noordsy, Kansas
- Dr. Horace T. Barron, Texas
- Dr. Lloyd C. Faulkner, Colorado
- Dr. Robert J. Harris, California
- Dr. Lavon M. Koger, Washington
- Dr. Otto M. Radostits, Canada
- Dr. Maurice L. Weldy, Indiana

COW-CALF SESSION:

- Dr. Harrison M. Gardner (Chairman), Ohio

DAIRY SESSION:

- Dr. Lawrence E. Heider (Chairman), Ohio

FEEDLOT SESSION:

- Dr. Warren E. Amling (Chairman), Ohio

OHIO STATE UNIVERSITY

VETERINARY HOSPITAL PROGRAM:

- Dr. Glenn F. Hoffsis, Ohio
- Dr. Daniel Gingerich, Ohio
- Dr. Charles Wallace, Ohio

LIAISON AND PROTOCOL COMMITTEE,

OFFICERS AND DIRECTORS BOVINE

INDUSTRY LUNCHEON MEETING:

- Dr. John Herrick, Iowa
- Dr. L. Mac Cropsey, Colorado

PRE-CONVENTION SEMINARS:

- Production of Quality Milk
 - Dr. James A. Jarrett, Georgia
- Breeding Soundness
 - Dr. John C. Simons, Wyoming
- Practical Nutrition
 - Dr. Albert S. Abdullah, Texas

POST-CONVENTION TOURS:

- The Ohio Feedlot

- Dr. Warren Amling, Ohio

- Dr. James Herman, Ohio

- Dr. William Hackett, Ohio

Select Sires

- Dr. Harrison M. Gardner, Ohio

POST-CONVENTION SEMINAR:

Vail, Colorado

- Dr. Ben Harrington, North Carolina

- Dr. James Jarrett, Georgia

LOCAL ARRANGEMENTS:

- Dr. Glenn F. Hoffsis (Chairman), Ohio

Entertainment:

- Dr. Dave Glauer, Ohio

- Dr. L. C. Zilles, Ohio

- Dr. Dave Lowe, Ohio

- Dr. Fred Boyer, Ohio

- Dr. Tom Hirt, Ohio

- Dr. Clyde Purdy, Ohio

- Dr. Don Sanders, Ohio

Speaker - Hosts:

- Dr. Don Buck, Ohio

- Dr. Howard Ehlerding, Ohio

Promotion and Publicity:

- Gene King, Ohio

- Dr. Charles W. Miller, Ohio

- Dr. Berlin Kagy, Ohio

- Dr. Martin Fuhrer, Ohio

- Dr. Albert Koltveit, Illinois

- Dr. Eric Williams, Oklahoma

Audio Visual Equipment:

- Warren Aiken, Ohio

- Dave Spindler, Ohio

Exhibits:

- Dr. Sam Hutchins, Vermont

- Gene King, Ohio

LADIES' PROGRAM:

Chairpersons:

- Mrs. Grace Tharp, Ohio

- Mrs. Linda Hoffsis, Ohio

- Mrs. Martha Heider, Ohio

Committee:

- Mrs. Howard Ehlerding, Ohio

- Mrs. Don Buck, Ohio

- Mrs. L. C. Zilles, Ohio

- Mrs. Fred Boyer, Ohio

- Mrs. Charles Miller, Ohio

NEW POLYVALENT BACTERIN PROTECTS GRIPPOTYPHOSA,



LEPTOMUNE[®]-GHP

Leptospira Grippotyphosa | Hardjo | Pomona Bacterin

3-in-1 protection against the major serotypes of leptospirosis.

LEPTOMUNE-GHP is effective against L. Grippotyphosa, L. Hardjo and L. Pomona, the three most prevalent serotypes of leptospirosis in the United States. A recent national survey of diagnostic laboratories reflects that in routine testing, L. Hardjo is being detected 34.8% of the time and L. Grippotyphosa 33.3%.

Now, new LEPTOMUNE-GHP makes it possible to provide multiple protection with a *single bacterin*.

EFFECTIVE—Trivalent bacterin protects against the major serotypes of leptospirosis in cattle and swine.

CONVENIENT—2 cc. dose; extremely syringeable.

SAFE—Anaphylaxis minimized (no serum is used in production). No interference with viral vaccines. May be used in pregnant animals.

LEPTOSPIROSIS AGAINST HARDJO AND POMONA.



*ONLY AFFILIATED OFFERS
A "TOTAL PROGRAM" FOR LEPTOSPIROSIS PROTECTION.*

V.I.P. (Veterinarians in Practice) choose

AFFILIATED
LABORATORIES DIVISION
WHITMOYER LABORATORIES, INC.
MYERSTOWN, PENNSYLVANIA 17067
SUBSIDIARY OF **ROHM AND HAAS COMPANY**



Conference Tours

The Ohio Feed Lot South Charleston, Ohio

The facilities at Ohio Feed Lot are the most modern in the world for efficient beef production. They are also pollution-free.

Eight quarter-mile long, steel-roofed confinement buildings house 2,400 cattle each. By putting the cattle under roof, Ohio Feed Lot eliminates one of the major factors in the growing problems of rural air and water pollution—the mixing of water with cattle urine and feces.



Select Sires, Inc. Plain City, Ohio

Welcome to the largest Cooperative Artificial Insemination Center in the United States.

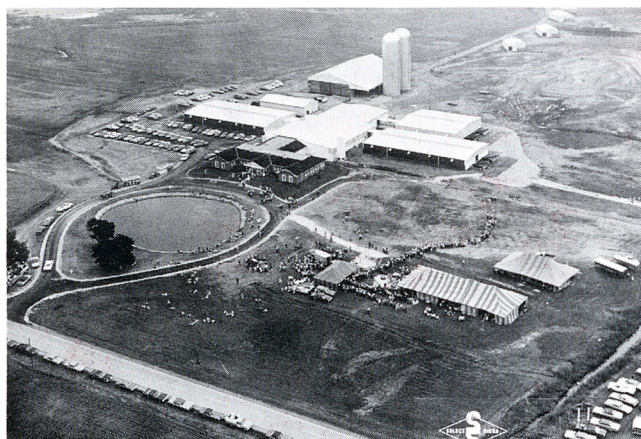
It is a pleasure for the staff and directors of SELECT SIRES to welcome you to our facility.

SELECT SIRES, INC., is a federation owned by Member Cooperatives who have united their semen production potential to form one organization with the basic objective . . . to serve the genetic improvement needs of livestock farmers.

Our new home is a milestone in the livestock industry. We invite you to see for yourself the bull barns, laboratory complex, distribution, shipping areas, and our offices.

These member A.I. Cooperatives are:

1. Cache Valley Division/Select Sires serving Utah, Idaho, Montana, Nevada, Wyoming, Western Colorado, Washington, and Oregon.
2. Central Ohio Breeding Association serving Ohio, Texas, New Mexico and Arizona.
3. East Tennessee Artificial Breeders Association serving Tennessee, Western North Carolina, South Carolina, and Georgia.
4. Tennessee Artificial Breeding Association serving Middle Tennessee.
5. Kentucky Artificial Breeding Association serving Kentucky and Southern Indiana.
6. Michigan Animal Breeders Cooperative serving Michigan and Northern Indiana.



7. Mississippi Animal Breeders Cooperative serving Mississippi.
8. Virginia Animal Breeders Association serving Virginia and Eastern North Carolina.

Through its members, divisions, and distributors, SELECT SIRES is available world-wide.

Member organizations have retained their individual identity and control of their sales and service program. Bulls were consolidated to form one large battery that has provided genetic potential unapproachable by any of the members individually. SELECT SIRES processes semen from 450 dairy and beef bulls to provide 50,000 farmers in 25 states semen to breed over 800,000 cows annually. The purchase of proven and performance tested sires plus special mating of outstanding cows with superior proven bulls are the responsibility of SELECT SIRES. Young bulls that result from these special matings are progeny tested in the

most unique and accurate sire testing program in the world.

Six hundred breeding units from each young sire are randomly used on cows and heifers in cooperative herds. This sampling method assures a non-biased random sampling to determine the bull's true genetic value. Only those determined to be genetically superior for production and type are returned to the proven sire program. Eighty-six percent of our bulls are dairy and 14% are beef. Our beef program is growing rapidly, especially in the new breeds.

The SELECT SIRE facility is located on 278 acres of land. The modern office facility is located adjacent to the semen processing, veterinary, and research laboratories. Three barns with direct access to the collection area house the sires in the regular program. Three isolation barns are located to the rear of the property to insure rigid health standards. A sires-in-waiting barn, located east of the main complex, houses bulls waiting progeny testing information.

Our laboratory annually process approximately two million units of semen. Ninety-five percent is processed in French straws because the semen can be stored more efficiently. Furthermore, one can expect a higher breeding efficiency using straws when compared to the ampule system of packaging. Our total semen storage capacity is over six million straws. Research and development projects are conducted by SELECT SIRE personnel and in cooperation with personnel from several universities as well.

Talk to our people and ask them questions. We are all here to serve you.

**The only people who will get full
benefit from the convention
are those that attend!**

Why don't you plan to be there!

Remember, it's your association!

Watch for these forthcoming

LAMENESS IN HORSES, 3rd ed.

This new edition provides complete and up-to-date coverage of all phases of lameness in horses . . . with over 125 new illustrations, and all chapters completely revised and brought up to date. " . . . unhesitatingly recommended to practitioners and students . . ."—*Modern Veterinary Practice*. By O. R. Adams, D.V.M., Colorado State University, Fort Collins. About 553 pp. (7 x 10), 530 illus., Fall, 1974.

DISEASES OF SHEEP

Covers in detail some 113 diseases caused by infection, parasites, intoxication, deficiencies and metabolic disturbances. Discussion for each disease follows a format that includes definition, occurrence, etiology and pathogenesis, clinical signs and postmortem lesions, diagnosis, prevention and treatment. By RUE JENSEN, D.V.M., Ph.D., Colorado State University, Fort Collins. 389 pp. (7 x 10), 93 illus., 33 tables, 1974.

THE FEEDLOT

This concise and up-to-date guide contains practical information on every phase of interest to the rapidly expanding feedlot industry. Edited by IRWIN A. DYER, Ph.D., and C. C. O'MARY, Ph.D., both of the Washington State University, Pullman. (17 Contributors). 224 pp. (7 x 10), illus. with charts and tables, 1972, \$14.00.

DISEASES OF FEEDLOT CATTLE, 2nd ed.

This book brings together current literature pertinent to the field. Many newer diseases are discussed, with advice on vaccinations and preventive methods for control. By RUE JENSEN, D.V.M., Ph.D., V.Sc.D., Colorado State University, Fort Collins; and DONALD R. MACKEY, D.V.M., Greeley, Colorado. 377 pp., 191 illus., 32 tables, 1971, \$18.50.

BOVINE MASTITIS

"An excellent publication. The first chapter alone makes it well worth the purchase price."—*Journal of the American Veterinary Medical Association*. By O. W. SCHALM, D.V.M., Ph.D., E. J. CARROL, Ph.D., and N.C. JAIN, Ph.D., all of the University of California, Davis. 360 pp. (7 x 10), 194 illus., frontispiece in color, 66 tables, 1971, \$16.50.

Lea & Febiger

WASHINGTON SQUARE
PHILADELPHIA, PA. / 19106