

# World Association for Buiatrics



Harold E. Amstutz, D.V.M.  
Vice-President, W.A.B.

At the first Meeting on Diseases of Cattle at Hannover in 1960 the participants expressed their interest in further regular meetings on the same lines.

Thus followed the second meeting in Vienna, 1962, where the "International Association of Buiatrics" was founded. A committee of four members was elected and charged to devise the statutes, to establish relationship with the World Veterinary Association, and to make arrangements for the next Congress.

During the third Meeting on Diseases of Cattle in Copenhagen on August 22, 1964, the assembled members adopted the resolution that the name of the association be changed to "World Association for Buiatrics" according to the principles of the World Veterinary Association.

## OBJECTIVES—According to the statutes:

1. The objectives of the World Association for Buiatrics are to organize meetings on cattle diseases in order to report the results of research work and practical experiences in this field, to discuss the topics on an international basis and thus promote buiatrics in science and practice. As a rule the meetings shall take place regularly in an average interval of two years, if possible in different countries. The preceding meeting shall determine the place of the next one and elect the coming local leader and organizer. Meetings of the World Association for Buiatrics shall not be held during the year of a World Veterinary Congress.
2. Veterinarians of all countries of the world, practitioners as well as scientists, may become members of the World Association for Buiatrics: that means not only specialists for cattle diseases but also everyone who cares for or is interested in general or special problems concerning health disturbances of cattle, their prophylaxis and treatment, e.g. Veterinary Surgeons, Internal Specialists, Gynecologists, Obstetricians and Andrologists, Pathologists, Microbiologists, Parasitologists, Hygienists, Nutritional Physiologists or other Veterinarians working in laboratories, administrations or practice. Besides, up to 10% of the members may be non-veterinarians. Veterinarians who are not members of the World Association for Buiatrics may take part in the meetings too. National associations for buiatrics may become associated members of the World Association for Buiatrics; however, only individual members present at the General Meeting have voting right.
3. Individuals who have made outstanding contributions to Buiatrics or to the World Association for Buiatrics may be proposed for honorary membership. Proposals will be made by the Committee and require the approval of the General Meeting.
4. The World Association for Buiatrics is affiliated to the World Veterinary Association as associate member. At the latest, one

year before the next meeting, the World Association for Buiatrics shall report the place and date of that meeting to the World Veterinary Association. The statutes and rules of the World Veterinary Association are to be observed.

5. The World Association for Buiatrics is presided by the Committee consisting of five to ten deputies of different nations. The presidium is elected for four years by the general meeting, which is convoked on the occasion of a scientific meeting. Re-election is possible. A further member of the Committee is the coming local leader and organizer of the next meeting. Following the election the Committee will be constituted with one president, two vice-presidents and one secretary; all others will be "members of the committee." Moreover, each country may choose one representative to maintain liaison with the Committee.
6. Membership subscriptions may be required for special expenses. The expenses of a meeting shall be covered by the participants' fees and if necessary by special allowances. The congress fee will be fixed by the local organizer and leader of the meeting who alone is responsible for the organization and for a duly financial course. Lecturers get no fee for their papers but are free of charge. Persons who are not members of the World Association for Buiatrics may have to pay a higher charge.
7. The informations of the Association shall be published in the veterinary journals.
8. Changes of the statutes need a 2/3 majority of the members present at the general meetings of the Association.

The fourth World Congress for Buiatrics was held in Zurich, Switzerland in August, 1966, under the organization of Prof. Dr. J. Andres while Opatjia, Yugoslavia was the venue for the fifth meeting, under the organization of Prof. Dr. T. Bratanovic.

The officers of the Association are:

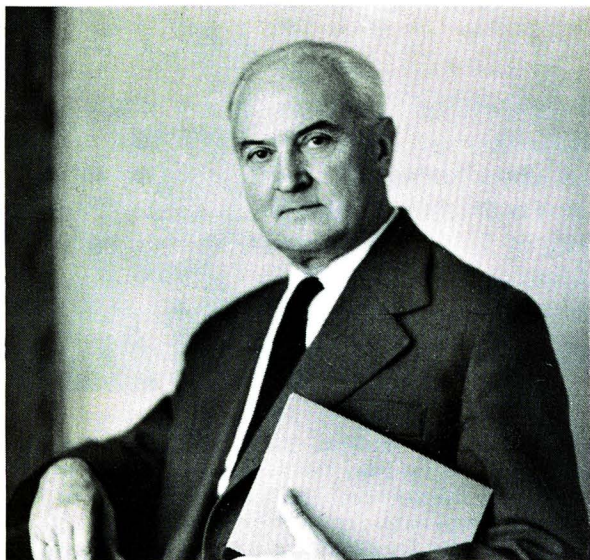
**PRESIDENT:** Prof. Dr. Karl Diernhofer, Vienna, Austria

**PAST PRESIDENT:** Prof. Dr. H. C. Bendixen, Copenhagen, Denmark

**VICE PRESIDENTS:** Dr. H. E. Amstutz, Purdue University, USA; Prof. Dr. E. Seren, Milan, Italy

**SECRETARY:** Prof. Dr. G. Rosenberger, Tierärztliche Hochschule, 3 Hannover, Germany, Bischofsholer Damm 15, Klinik für Riderkrankheiten

**COMMITTEE:** Prof. Dr. J. Andres, Zurich, Switzerland; Prof. Dr. U. Bratanovic, Belgrade, Yugoslavia; Prof. Dr. A. Charton, Alfort, France; Prof. Dr. G. Espersen, Copenhagen, Denmark; Prof. C. S. Grunsell, Bristol, G. Britain



## President, W.A.B.

1929 he was conferred the status of Hochschuldozent. In 1937 he became the holder of the Chair of Buiatrics and Head of the Clinic for Buiatrics. From 1952-1954 he was Rector of the School. He has been elected member corresponding or honorary member of a number of national and foreign scientific societies. He has been conferred two D.h.c. degrees; (Budapest, Hungary in 1963 and Hannover, West Germany in 1965).

Dr. Diernhofer has devoted his lifetime to the training of veterinary students for cattle and swine practice. He has been actively engaged in the diagnosis and eradication of bovine tuberculosis and brucellosis.

Dr. Diernhofer writes: "We were all very glad that our decision at the Congress in Opatjia to hold the next conference in the United States has been approved so enthusiastically by our American colleagues. I am pleased to welcome the members of the American Association of Bovine Practitioners and all colleagues who are interested in the health aspects of cattle—the most important source of animal protein."

At the 5th Conference for Buiatrics held in Opatjia, Yugoslavia in 1968, Prof. Dr. Karl Diernhofer was elected President of the Association. Dr. Diernhofer was born in Upper Austria in 1895. After his return from World War I he enrolled at the Vienna Veterinary College and graduated in 1924.

In 1926 he obtained the D.V.M. degree and in

## W.A.B. Secretary

Prof. Dr. Gustav Rosenberger (60), has been the secretary of the World Association for Buiatrics since its foundation in 1962. After his studies in veterinary medicine (Munich, Hannover) he received his Dr.med.vet.-degree in Hannover (1934) and then worked in several sections of the profession (practice, meat hygiene, control of epizooties); later, he was a research assistant in the clinic for obstetrics and diseases of cattle in the Hannover Veterinary College and became lecturer/assistant professor. From here he was called as Professor for Surgery to the University of Posen. After World War II, he directed a private cattle clinic with practice and insemination station for eight years.

Since 1953, he has been professor and director of the clinic for diseases of cattle at the Hannover Veterinary School. Prof. Dr. Rosenberger has been working successfully on anemia caused by brassica feeding, spastic paralysis of the hind legs, papillomatosos, amaurosis due to avitaminosis A, leucoma binoculare hereditarium, haematuria vesicalis (chronic form of bracken poisoning), hypodermosis, lymphosarcoma, fluorosis, and metabolic and deficiency diseases.

With his co-workers, he published the textbook



Prof. Dr.  
Gustav Rosenberger

"Tiergeburtshilfe" (animal obstetrics) 2. edition, "Die klinische Untersuchung des Rindes" (Clinical examination of cattle) and "Krankheiten des Rindes" (Diseases of cattle). Furthermore, he is redactor of the periodical "Deutsche Tierärztliche Wochenschrift."

For his merits in the field of buiatrics, he was honored by the degree of a *doctor honoris causa* of the Veterinary School of Vienna, Austria, and of the Aristotelian University in Thessalonika, Greece.

(Prof. Dr. Rosenberger extends his greetings to his colleagues in the United States and wishes to thank Dr. Harold Amstutz and all the committee members who have worked so diligently in preparing for the Philadelphia Congress.)



## W.A.B. Past-President

1964-1968

Prof. Dr. Bendixen was born July 12, 1897 in Bredsten, Denmark. He graduated as a veterinarian from the Royal Veterinary and Agricultural College, Copenhagen in 1921. He practiced for two years and was then appointed as Assistant in the Department of Special Pathology and Therapeutics and in the Large Animal Clinic at Copenhagen. Dr. Bendixen was Professor of Bacteriology, Parasitology, Meat and Milk Hygiene (1935-1937) and Professor of the Special Pathology and Therapeutics Department and the Large Animal Clinic from 1937 to 1967. He spent a year (1951-52) as staff officer at FAO, Rome and later as consultant.

Dr. Bendixen has received the Degree Honoris Causa from Hannover, Germany (1963) and Helsingfors, Finland (1965). Dr. Bendixen has devoted himself to the welfare of the World Association for Buiatrics and has given outstanding leadership to the organization. In appreciation of his services, Dr. Bendixen has been made an Honorary Member of W.A.B.

In a message to his colleagues in the AABP, Dr. Bendixen writes:

"It was on one of the bright September days during the 5th meeting of *The World Association of Buiatrics* held in Opatjia, Yugoslavia, 1968, that Vice-President, Professor, Dr. H. E. Amstutz announced to the members of the organization the invitation to hold the VI meeting, 1970, in Philadelphia, Pennsylvania, as a joint meeting with *The American Association of Bovine Practitioners*. The invitation was received with enthusiasm. In the meetings hitherto held, we always found, among colleagues from many countries, a strong interest in the now prevailing development concerning the problems of health and diseases of cattle. We found the hospitable invitation to meet with the colleagues of the corresponding organization of U.S.A. highly interesting and generous. Among several other reasons, we have a strong feeling for your country as one

with outstanding experiences in the cattle industry and the various aspects of health problems, including prevention and curative treatment of diseases pertaining to the bovine and related animal species.

As at earlier occasions, selected topics will be discussed. The organizing committee has decided to put two very important themes on the agenda, namely: *Diseases of the Udder* and *Diseases of the Reproductive Tract*. Further, a limited number of free papers dealing with other cattle diseases will be accepted for the agenda.

The layout for this meeting is very promising. I feel convinced that every WAB member here is given the strongest stimulus to make up his mind to show up at the booking center in order to enjoy the days, August 17-20, which I hope will be pleasant, informative, professional meetings and useful rendezvous!"

May 1, 1970  
Copenhagen

### REGISTRATION FORM

#### VI INTERNATIONAL CONFERENCE ON CATTLE DISEASES

August 16-20, 1970  
Bellevue Stratford Hotel  
Philadelphia, Pennsylvania

Registration . . . . .	\$25.00	_____
Pre-registration before July 15th . . . . .	\$23.00	_____
Tours August 16th — Transportation . . . . .	\$ 2.50	_____
Noon Luncheon fee of \$2.50 will be collected at New Bolton Center	University of Pennsylvania Dormitory Housing: Single occupancy \$6.00 Double occupancy \$4.50 Banquet \$9.50 each Ladies registration: No Charge Total	_____ _____ _____ _____ _____

Please make Bellevue Stratford Hotel Reservations directly with the Hotel.

Please mail registration to Meeting Organizer: H. E. Amstutz, Box 2319, West Lafayette, Indiana 47906

# 6th International Conference on Cattle Diseases

The 6th International Conference on Cattle Diseases will be held at the Bellevue Stratford Hotel, Philadelphia, Pennsylvania, on August 16-20, 1970. The Conference is sponsored by the World Association for Buiatrics and hosted by the American Association of Bovine Practitioners and The National Mastitis Council. It is partially supported by Research Grant FD00249-01, Food and Drug Administration, U.S. Public Health Service.

The Conference will be devoted mainly to diseases of the udder and the reproductive system with a few short papers on miscellaneous subjects. The official languages will be English, French, and German, with instant translation provided in the three languages.



Dr. Sam F. Scheidy,  
Chairman, Organizing Committee

## THE ORGANIZING COMMITTEE:

Includes Dr. Sam F. Scheidy (chairman), Drs. Mark W. Allam, Charles Hollister, Raymond A. Ivie, Richard A. McFeeley, Norman Meyer, Guy E. Morse, Robert R. Marshak, and Eric I. Williams.

## THE PROGRAM COMMITTEES:

*Diseases of the Udder*—Dr. Guy E. Morse (chairman), Drs. Donald E. Jasper, L. W. Slanetz, Neil L. Norcross, and John S. McDonald.

*Diseases of the Reproductive System*—Dr. Richard A. McFeeley (chairman), Drs. Arthur V. Bartenslager, Lloyd C. Faulkner, Barton L. Gledhill, and Stephen J. Roberts.

## EXHIBITS:

Drs. Donald E. Williams and Raymond A. Ivie.

## PUBLICATION OF CONFERENCE PROCEEDINGS:

Dr. Eric I. Williams (chairman), Drs. Guy E. Morse and Richard A. McFeeley.

## LADIES COMMITTEE:

Barbara Rubin (Mrs. Lionel F.) (chairman), Jennette Scheidy (Mrs. Sam F.), and Betty Steinberg (Mrs. Sheldon A.).

## Receptions, Breakfasts, and Banquets

**President's Reception** (Gemütlichkeit)—Monday Evening, August 17—8:00 to 10:00 p.m., Bellevue Stratford. The President's Reception will be

hosted by DeLaval Separator Company and will feature an American square dance with an opportunity for audience participation. Draft beer, pretzels, and potato chips will be provided.

**Breakfasts** (Bellevue Stratford)—Included in the registration fee. August 17—Continental breakfast for both husbands and wives in the Exhibit Area from 8:00 a.m. to 9:00 a.m.

August 19—Coffee service room for the ladies—9:00 a.m.—10:30 a.m.

**Banquet** (Bellevue Stratford)—\$9.50 per person—Wednesday, August 19—7:30-10:00 p.m. A cash bar will be provided from 6:30-7:30 p.m. A string band will provide entertainment. Formal dress will not be required, but may be worn if desired.

## Ladies' Program

Pay as you go—No registration offered.

### Sunday, August 16:

All day tours to Gardens, New Bolton Center, and Cattle Farms.

### Monday, August 17:

9:00—10:30 a.m.—Morning coffee with the gentlemen, courtesy of American Association of Bovine Practitioners.

10:30 a.m.—Guided tours of the Philadelphia Museum of Art, the third most important museum in the United States housing such treasures as Picasso's *Three Musicians*, Van Gogh's *Sunflowers*, Cezanne's *The Bathers*, and a Japanese Tea House. (Bus fare \$ .30. Free admission to the Museum).

8:00 p.m.—President's Reception—Courtesy of DeLaval Separator Company.

### Tuesday, August 18:

12:00 noon—Tickets to the Mike Douglas TV Show for the first 50 registrants if the show is being taped that day. (Admission is free.)

3:00 p.m.—Fur Fashion Show by Arthur Lichtenman—A preview of the season's fashions in fur including dress furs, evening furs—even fun furs!

Afternoon tea. (Admission free.)

### Wednesday, August 19:

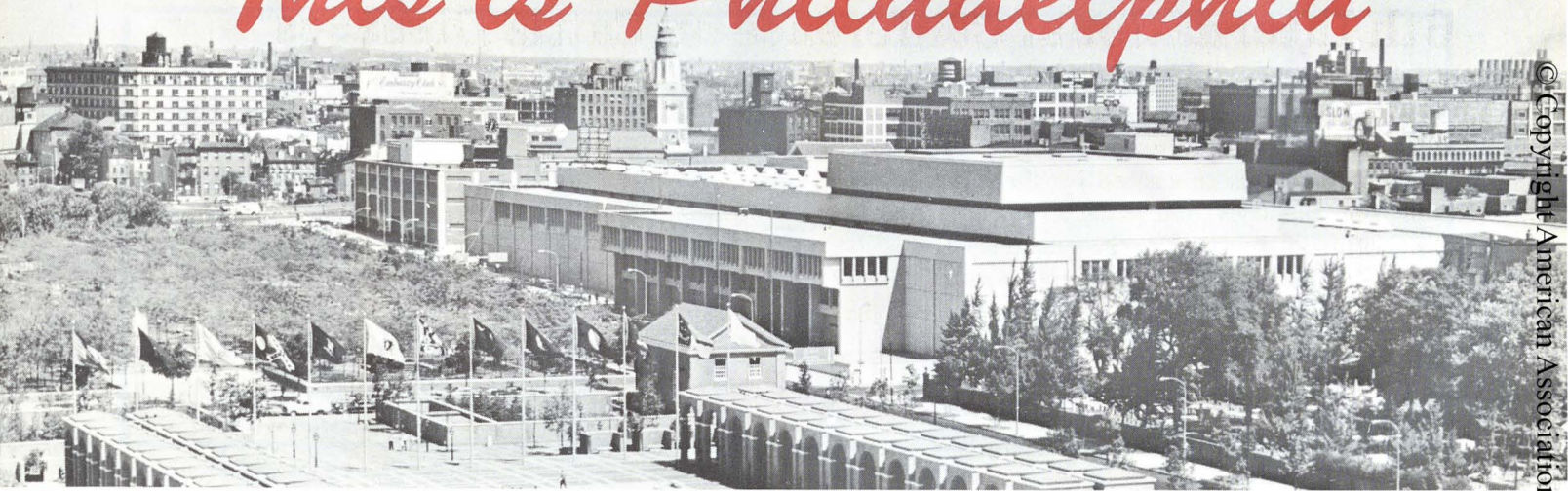
9:00—10:30 a.m.—Morning coffee courtesy of American Association of Bovine Practitioners.

10:30 a.m.—Walking tour of Society Hill and Independence Hall areas. See the Powell House, Hill-Physick-Keith House, Perelman Toy Museum and Man Full of Trouble Tavern. (Package price \$2.50.) Independence Hall (free). (bus fare \$ .10).

6:30—7:30 p.m.—Cash bar preceding the banquet.

7:30 p.m.—Banquet.

# *This is Philadelphia*



No other city offers the unique blend of historic and modern America which is found in Philadelphia. Here in the midst of a great and vigorous 20th century metropolis, the visitor sees the colonial city where the United States was born in 1776.

Philadelphia's roots go deep. It was founded in 1682 by William Penn, a Quaker from England. He came here in a ship named "Welcome" and the name he chose for his city means "City of Brotherly Love." Both names reflect the gracious, friendly atmosphere the visitor finds in this fourth largest city in the States.

Philadelphia has a past to be proud of and much of it has been carefully and painstakingly preserved. Here is Independence Hall, where the American Declaration of Independence was signed and where the Constitution of the United States, which has served as a model for other nations, was debated and adopted. Here also is the famous old Liberty Bell, a symbol of freedom around the world. Here too, the tourist can visit houses, attend churches and walk through the same streets that existed before the American Revolution.

Philadelphia is perhaps the most cultured city in America. Here the arts, music, the theatre, science and education are found in abundance. Most noted of its many museums is the Philadelphia Museum of Art.

Music and the theatre flourish in Philadelphia. Its celebrated Academy of Music is the home of the world-renowned Philadelphia Orchestra and the setting for grand opera and concerts by famous vocal and instrumental soloists. During the summer, the Orchestra gives a six week series of concerts "Under the Stars" in Fairmount Park's Robin Hood Dell.

Philadelphia is an historic city, a bright and modern one, a highly cultured and cosmopolitan city, and one of the most beautiful in America.

# Program:

## 6th International Congress on Cattle Diseases

### SUNDAY, August 16

(leave by bus from Bellevue Stratford Hotel at approximately 8:30 a.m.)

#### TOUR I

- (a) A visit to Longwood Gardens (a.m.).
- (b) A barbecue lunch at New Bolton Center.
- (c) A tour of the New Bolton Center

#### TOUR II

- (a) A tour of the New Bolton Center (a.m.).
- (b) A barbecue lunch at the New Bolton Center.
- (c) Visits to Buck and Doe Valley Farms and modern dairy farms (p.m.).

### MONDAY, August 17

#### G. E. Morse, Chairman

9:00 Opening Ceremonies *H. E. Amstutz, H. L. Marsh  
H. C. Rosenberger and J. W. Smith*

#### SYMPOSIUM ON MASTITIS

9:15 Introduction *G. E. Morse*  
 9:20 The Diagnosis of Udder Infection. *O. Klastrup*  
 10:00 Break  
 10:10 Some Factors of Potential Importance in the Pathogenesis of Bovine Staphylococcal Mastitis. *F. H. S. Newbould*  
 10:50 Acquired Immunity to Streptococcal Mastitis. *N. L. Norcross*

11:30 Lunch

#### H. C. Rosenberger, Chairman

1:00 Bovine Mastitis, Host Responses to Udder Infection. *O. W. Schalm*  
 1:40 Factors Related to Level of Natural Resistance to Udder Infection. *J. W. Smith*  
 2:20 Interactions Between the Frequency of Mastitis and the Technique of Milking. *A. Tolle*  
 3:00 Break  
 3:15 Correlation Between Leukocyte Counts in Bulk Milk and Quarter Infections in Dairy Herds. *D. S. Postle*  
 3:30 Investigations on Staphylococci Isolated from Milk of Clinically Healthy Cows and from Clinical Cases of Mastitis. *S. Tarkiewicz*  
 3:45 Investigations on Clinical Cases of Coliform Mastitis in Cows. *S. Tarkiewicz*  
 4:00 The Clinical Aspects of Coliform Mastitis in Cattle. *O. M. Radostits*  
 4:15 Studies of the Mastitis in Dairy Cattle Caused by *Corynebacterium pyogenes*. *H. Frerking*

4:30 Bovine Mastitis Caused by *Cryptococcus neoformans*. *A. Mantovani, et al.*  
 4:45 Classification of Mastitis in Cows. *G. Zvereva*  
 5:00 Machine Milking and Electroencephalography in Diagnosis of Concealed Udder Traumatism. *A. N. Golikov and E. I. Lyubimov*  
 8:00 President's Reception (Gemutlichkeit). Hosted by the DeLaval Separator Company.

### TUESDAY, August 18

#### SYMPOSIUM ON MASTITIS (continued)

#### D. E. Williams, Chairman

8:00 When do Microorganisms Gain Access to the Teat Sinus? *J. S. McDonald*  
 8:15 Microanatomical Observations of Teat Canals from Susceptible and Resistant Quarters. *J. S. McDonald*  
 8:30 Quantifying the Genetic Effects on the Anatomy of the Streak Canal. *R. D. Appleman*  
 8:45 The Teat Canal as a Natural Barrier to Udder Infection. *G. E. Morse and K. F. Mitchell*  
 9:00 The Role of Cationic Proteins in the Natural Defense of the Mammary Gland. *K. G. Hibbitt*  
 9:40 The Use of Antibiotics in Mastitis Control. *G. C. Brander*  
 9:55 Break  
 10:15 Resistance of Pathogenic Agents to Mastitis Treatment. *U. Weigt and R. Kramer*  
 10:30 Residues of Antibiotics in Raw Milk. *J. H. ter Heege*  
 10:45 The Development and Application of Drugs for Bovine Mastitis. *O. Uvarov*  
 Lunch

#### J. C. Range, Chairman

1:00 The Effect of a Mastitis Control System on Levels of Subclinical and Clinical Mastitis. *F. H. Dodd, et al.*  
 1:40 A Practical Approach to Mastitis Control. *R. P. Natzke, et al.*  
 2:20 Bovine Mastitis—1970. *G. E. Morse*  
 3:00 Break  
 3:15 The Control of *Staphylococcal Aureus* Udder Infection in a Dairy Herd by Segregation—A Nine Year Observation. *G. White*  
 3:30 Field Experiments on Control of Udder Disease in Israel. *G. Ziv*  
 3:45 The Studies on the Efficacy of Teat Dips in the Control of Bovine Mastitis. *A. Saucier and I. Platonow*  
 4:00 The Effect of a Synthetic Progestational Steroid (6-chloro-6-dehydro-17 alpha-acetoxy-progesterone = chlormadinone acetate = CAP) on Udder Oedema of the Cow. *G. Ballarini*

- 4:15 Variations of the Electrophoretic Components of Milk Serum in Mastitis Cases Undergoing Treatment with Anti-Inflammatory Substances. *E. Quadri*
- 4:30 A Contribution to Surgery of Teat and Udder Lesions in Dairy Cattle. *F. Luhmann and P. Andresen*
- 4:45 New Method of Cure and Prevention of Mastitis in Cows. *G. S. Grigoryan*
- 5:00 Neonatal Diarrhea of a Viral Etiology. *C. A. Mebus, N. Underdahl, E. L. Stair, and M. J. Twiehaus*

## WEDNESDAY, August 19

### SYMPOSIUM ON INFERTILITY IN CATTLE

**R. A. McFeely, Chairman**

- 8:00 Introduction *R. A. McFeely*
- 8:05 Reproductive Expectancy and Management Factors. *J. S. E. David*
- 8:45 Nutrition and Reproductive Expectancy in the Beef Cow. *J. N. Wiltbank*
- 9:25 Functional Infertility in the Cow. *R. Zemjanis*
- 10:05 Infection and Infertility *J. W. Kendrick*
- 10:45 Break
- 11:00 Effect of Cystic Follicles on Postpartum Reproduction in Cattle. *D. A. Morrow*
- 11:15 Results of Treating Cystic Degeneration of Ovaries in Cattle with Prolactin. *H. Frerking*
- 11:30 Lunch

**R. A. Ivie, Chairman**

- 1:00 Early Diagnosis and Prophylaxis in Infertility, especially nonspecific Endometritis. *H. Sommer*
- 1:15 Diagnosis and Prevention of Infertility in Dairy Cows Caused by Nonspecific Infection. *N. Polyantsev and Y. Popov*
- 1:30 Vaccination Against Coital Exanthema (IPV). *O. C. Straub*
- 1:45 A New Non-agglutinogenic Vaccine Against Brucellosis: P. B. Vaccine. *Ch. Pilet, M. Bonneau, and L. Valette*
- 2:00 Why Bovine Vibriosis Vaccination Fails. *J. S. Butterweck*
- 2:15 Application of Furasolidone Suspension in Cases of Placenta Retention and Metritis in Cows. *A. Manasyan and M. Nerkaryan*
- 2:30 Benzylamine in the Therapy of Cow Metritis. *A. Rogheto*
- 2:45 Experimental Treatment of Cattle Sterility by the Acid Derivative, LOTAGEN. *P. Andresen and J. Pohlenz*
- 3:00 Break
- 3:15 Efficacy of Tetracycline Injections During Pregnancy as a Control Measure of Abortions Due to the P.L.V. Agent in Dairy Cattle. *U. Bargai*
- 3:30 Bovine Infertility *M. Weldy*
- 3:45 Some Biochemical Blood Factors in Reproductive Disturbances in the Bovine. *L. Valge*
- 4:00 Relationship of Various Fetal Fluids in the Bovine Based on Examinations and Analyses in 18 Cows Between the 190th and 260th Day of Gestation. *C. E. Eastin*
- 4:15 Estrogen Determination in the Urine of Cattle for the Diagnosis of Intrauterine Death of Fetuses. *E. Grunert*
- 4:30 Fetal Factors in Prolonged Gestation. *M. Drost*
- 4:45 Relationship Between Estimated Genetic Value on Milk Yield and Butterfat Yield of AI Bulls and 60 to 90 Day Non-Return Rates of Their Virgin Heifer Progeny Groups. *K. H. Lotthammer*
- 5:00 Evaluating a Herd Health Program. *E. Leonard*
- 5:15 Experiences with Rompun and Uterus Relaxans-Wdt in Udder Surgery, Gynecology and Obstetrics in Cattle. *D. Ahlers*
- 6:30 Social Hour
- 7:30 Banquet (Bellevue Stratford Hotel).

## THURSDAY, August 20

### SYMPOSIUM ON DISEASES OF THE MALE GENITAL TRACT

**V. L. Tharp, Chairman**

- 8:00 Introduction *B. L. Gledhill*
- 8:05 Diseases of the Testes and Epididymis *R. M. Kenney*
- 8:45 Diseases of the Accessory Sex Glands *L. Ball*
- 9:25 Disorders of the Penis *D. Walker*
- 10:05 Break
- 10:15 Experimental Genital Infection of Bulls and Rams with Chlamydial (Psittacosis) Agents *A. K. Eugster, L. Ball, E. J. Carroll and J. Storz*

- 10:30 Etiology of Hematomas of the Penis of Bulls—A Clinical Survey *J. L. Noordys*
- 10:45 Health Standards for Sires used in Artificial Insemination Programs *J. B. Herrick*

#### General Session

- 11:00 An Epizootiological Study of Respiratory Infections in Cattle. *R. A. Curtis*
- 11:15 The Control and Prevention of Distomatosis in the Netherlands. *J. J. Koopman*
- 11:30 Lunch

#### General Session (continued)

**H. L. Marsh, Chairman**

- 1:00 Clinical Observations on an Enzootic Calcinosis in Cattle in Bavaria *G. Dirksen, P. Plank*
- 1:15 Effect of Intravenous Application of Live Cultures and Their Supernatants of Four Strains of Enterobacteriaceae to Suckling Calves. *I. Brglez, P. Skusek, J. Batis and V. Gregorovic*
- 1:30 Suitability of Intraperitoneal Route in Cattle for Detection of Foot and Mouth Disease Virus *P. Gailunas, G. E. Cottral*
- 1:45 Studies on the Ocular Neoplasms Frequency in Cattle. *I. Ivascu*
- 2:00 Metabolic Disorders in High-Productive Milk Cows During Pregnancy and at Initial Lactation with Special Regard to the Acid-Base Equilibrium. *J. Zust, N. Klemenc and P. Vospernik*
- 2:15 Cruciate Ligament Repair in the Bovine. *G. F. Hamilton*
- 2:30 The Etiology of a Hemorrhagic Syndrome in Beef Calves. *H. D. Grunder, W. Fischer and J. Pohlenz*
- 2:45 Allergic Responses in Cattle on Farms with Different Epizootic Situations Concerning Tuberculosis *V. Urban, M. Shirobokova, A. Zubkov and N. Kalishin*
- 3:00 Break
- 3:15 Seven-year Survey on the Prevention of Traumatic Gastritis in Cattle Using the Cage-Magnet. *M. Stober and W. Fischer*
- 3:30 Poloxalene in the Prevention and Treatment of Frothy Bloat. *C. R. Miller, O. W. Ostmann*
- 3:45 Magnetic Probe and Magnetic Ring for the Removal of Metal Foreign Bodies From Fore-Stomachs of Horned Cattle. *S. G. Meligetian*
- 4:00 A New Anabolic Agent for Beef Cattle *R. G. Brown*
- 4:15 Methods of Abdominal and Thoracic surgery in Cattle. *N. V. Sadovsky*
- 4:30 Clinico-anatomical Characteristics and Pathogenesis of Pneumonia in New-born Calves. *V. P. Shishkov*
- 4:45 Dispensary System of Dairy Cattle Practice. *I. Kondrakhin*
- 5:00 The Digestibility of Nutrients and Diarrhea in Calves Fed Milk Replacers. *O. M. Radostits*
- 5:15 A Rare Case of Recurrent Meteorism Subsequent to Pediculate Epithelioma in Bovines. *I. M. Darie*
- 5:30 Immunohemolytic Syndrome of Neonatal Calves. *M. F. Young*

# Convention Headquarters

## The Bellevue Stratford Hotel... "New in Face — Old in Grace"

For more than a half century the Bellevue Stratford Hotel, Philadelphia, has steadfastly maintained the atmosphere and charm which so impressed its original guests. The Bellevue Stratford is Philadelphia, sharing a distinguished heritage with such famed traditions as William Penn, Ben Franklin, the Liberty Bell and Independence Hall.

Every President of the United States since Theodore Roosevelt has passed through the Bellevue portals. Realizing the need for appropriate quarters for the President, statesmen and other dignitaries, the hotel inaugurated the luxurious Presidential Suite in 1961. This suite is used by the U. S. State Department for visiting heads of foreign governments.

The Assembly Ball is held each year at the Bellevue, usually the Friday evening before Christmas. The Assembly, one of the oldest social events in the nation, dates from 1748. Another important occasion is the William Penn Award Dinner, sponsored annually by the Greater Philadelphia Chamber of Commerce to honor an American who has rendered outstanding service to the United States economy.

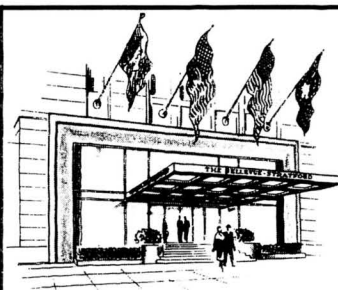
A large part of Philadelphia society chooses the Bellevue Stratford annually for the formal debuts of its debutante daughters. These coming-out parties range from lavish balls, dinner-dances and receptions to smaller luncheons and dinners.

Philadelphia is the site of the Army-Navy Football Game every autumn and the Bellevue Stratford is official Navy headquarters. Hence the hotel is the scene of gay pre-game crowds and post-game parties during Army-Navy weekend. The Tecumseh Room with its naval decor and nine-foot-high bust of the famous Indian chief, is dedicated to the United States Naval Academy.

The Bellevue has always been a popular rendezvous for luncheon and dinner. The Stratford Garden Dining Room is a favorite luncheon spot both for businessmen and for ladies who later attend the afternoon Philadelphia Symphony Orchestra concerts, while theater-goers find it ideal for dinner. The Hunt Room is an authentic English Tavern with a 30-foot mural of an English hunting scene behind the bar.

The Bellevue Stratford has retained its gracious personality even though times have changed. At the same time, however, the hotel provides today's guests with the most modern accommodations and facilities. Guest rooms have been beautifully decorated, tastefully and comfortably furnished, air-conditioned and equipped with television and radio. High speed elevators have been installed. Another feature is an automatic telephone system for guests.

Today's Bellevue Stratford is truly "New in Face — Old in Grace."



*Welcome!*

## 6th International Congress on Cattle Diseases

August 16 to 20, 1970

We extend cordial greetings and offer you our fine facilities and gracious hospitality.

- Comfortable Guest Rooms,
- Attractive Dining Rooms and Cocktail Lounges

*Make Your Reservations Early*

THE *Bellevue Stratford*

Phone: 215-735-0700  
Broad & Walnut Streets  
Philadelphia, Pa. 19102



# Congress Tours

On Sunday, August 16, veterinarians and their wives attending the 6th International Congress on Cattle Diseases will have the opportunity to travel by bus from Convention headquarters at the Bellevue Stratford Hotel in Philadelphia to New Bolton Center, the rural campus of the School of Veterinary Medicine of the University of Pennsylvania.

Two tours are being planned:

## TOUR I

- (a) A visit to Longwood Gardens in the morning.
- (b) A barbecue lunch at New Bolton Center at noon.
- (c) A tour of the New Bolton Center complex in the afternoon.

## TOUR II

- (a) A tour of the New Bolton Center complex in the morning.
- (b) A barbecue lunch at New Bolton Center at noon.
- (c) Visits to Buck and Doe Valley Farms and to modern dairy farms in the afternoon.

### NEW BOLTON CENTER

New Bolton Center is the 750 acre rural campus of the School of Veterinary Medicine. Here the Veterinary School has its facilities for treating and hospitalizing farm animals. The School also uses this Center as the base for an extensive veterinary practice to nearby farms.

The hospital and clinic, among the best equipped in the nation, serve as the clinical training ground for veterinary students in large animal medicine and surgery. Groups of students are assigned to the New Bolton Center during their fourth year on a rotational basis. While at the Center, they live in Alumni House, the new student dormitory, to which is attached a cafeteria for students, faculty and staff of the Center.

In addition to the clinical activities at New

*New Bolton Center*



*The Fountain-Gardens at Longwood*

Bolton Center, a number of research projects, ranging from fertility studies to intensive investigations into the nature of bovine leukemia, are conducted in other buildings on the grounds.

New Bolton Center is located 35 miles from Philadelphia in the rolling hills of Chester County. Located near the Center you will find modern dairy farms and the Buck and Doe Valley Farms (a 10,000 acre farm where approximately 5,500 Santa Gertrudis steers are fattened each year for the eastern United States markets. They also maintain a small breeding herd consisting of 180 Santa Gertrudis cows, heifers and bulls.)

### LONGWOOD GARDENS

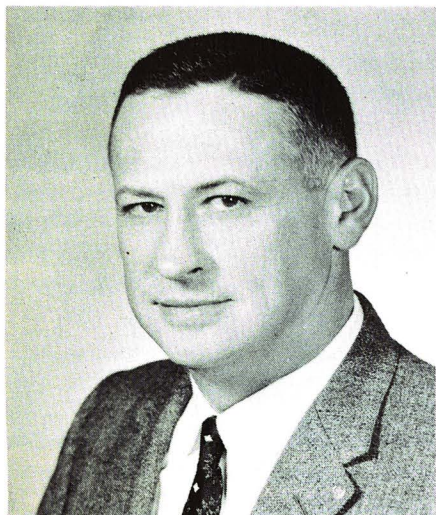
Located four miles from New Bolton Center, Longwood Gardens ranks as one of the outstanding display gardens in America. The Gardens have been under development since 1906 when an old property dating back to colonial times was acquired by Pierre Samuel duPont for his personal use as a country estate.

The Gardens have been a popular attraction to lovers of beauty since 1921 when the conservatories were first opened to the public.

# A.A.B.P. Officers



## President



**Herbert L. Marsh,**  
D.V.M.

Dr. Herbert L. Marsh, Princeton, Illinois, a native of Elroy, Wisconsin, graduated from Iowa State University in 1943. After duty in the Veterinary Corps Service in the South Pacific, he practiced in Whitewater, Wisconsin, until July, 1951 when he moved to Princeton, Illinois, one of the prime livestock producing areas in the United States. Dr. Marsh owns and operates a three man large and small animal hospital.

Dr. Marsh is also an active member of his community. A past Moderator of the Bureau-Rock River Congregational Conference, he is a member of Princeton Rotary Club, the Township High School Board and Past President of the Bureau Valley Council of Camp Fire Girls.

Among his professional activities, Dr. Marsh is Past Chairman, AVMA Council on Education; Chairman, ISVMA Council on Education and

Research; Member, Advisory Committee, Bureau of Veterinary Medicine, FDA, Washington, D. C.; Chairman, Advisory Committee to the Director, Illinois Department of Agriculture. Dr. Marsh has presented papers at numerous professional meetings. He and his wife, Helen, have four daughters and one son.

He is Past President, Illinois Veterinary Medical Association. Dr. Marsh was Director, 5th District, AABP, until his election to the Presidency.

### PRESIDENT'S MESSAGE

The American Association of Bovine Practitioners has the unique privilege of hosting the 6th International Congress on Cattle Diseases, at Philadelphia, August 16-20, 1970.

With privilege comes responsibility. Dr. Harold Amstutz, the conference organizer, and his program committee have well fulfilled their responsibility by arranging an excellent program. All of us in the AABP can fulfill *our* responsibility by assuring a good attendance of our membership at Philadelphia.

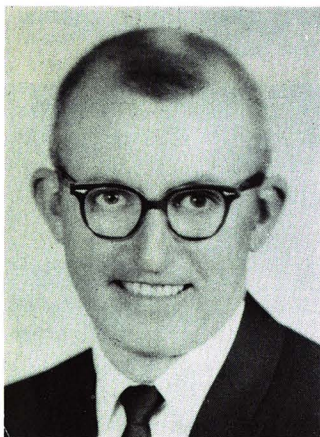
I anticipate seeing you in August and urge you to bring your wives. They will enjoy the ladies program and the Philadelphia area which offers a rich heritage of early Americana.

To our distinguished colleagues from overseas, I wish to convey the greetings of the American Association of Bovine Practitioners. I am looking forward to personally welcoming you in Philadelphia.

June 1, 1970

Herbert L. Marsh, D.V.M.

## President-Elect



**Irwin J. Collinge,** D.V.M.  
Emporia, Kansas

## Vice-President



**Francis H. Fox,** D.V.M.  
Ithaca, New York

8727

## New Directors



**Samuel Hutchins III, D.V.M.**  
South Barre, Vermont  
(1st District, 1972)  
Operates 50% dairy practice, special interest in dairy herd health programs. Alternate Delegate to AVMA for Vermont since 1967.  
Chairman, Vermont VMA education committee.  
Married, 5 sons.



**Robert G. Jackson, D.V.M.**  
Lancaster, Wisconsin  
(5th District, 1970)  
Native of Northern Illinois engaged in mixed practice.  
Active in community affairs and local V.M.A.  
Married, 4 sons.



**Robert J. Harris, D.V.M.**  
Turlock, California  
(10th District, 1972)  
Raised on a farm in West Central Illinois. 20 years practice in Turlock—90% dairy cattle.  
Active in local community and Northern San Joaquin V.M.A.  
Married, 3 children.

---

## A.A.B.P. District 7 Conference

The American Association of Bovine Practitioners, District 7 (Missouri, Kansas and Oklahoma) will hold a two day conference in conjunction with the Oklahoma State University Conference for Veterinarians on September 10-11, 1970 at the Student Union, OSU, Stillwater, Oklahoma.

Among the program speakers will be Dr. R. Zemjanis, Minnesota, who will discuss vibriosis, leptospirosis, and non-infectious reproductive problems. Dr. Searl, Fort Dodge Laboratories, will

deal with erythroblastosis in calves; Dr. Sam Scheidy, Smith, Kline and French Laboratorie, will discuss bloat in cattle. There will also be presentations on DHIA records, and discussions on herd health programs. Dr. Robert Miller, District 6 Director, will speak on nutrition and consultation while Dr. Irwin Collinge, President Elect, AABP, will discuss the objects of the AABP. The conference will conclude with a short symposium on swine disease problems.



Application for Membership  
AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS

H. E. Amstutz, D.V.M.  
Secretary-Treasurer, AABP  
Box 2319  
W. Lafayette, Indiana 47906

I accept your invitation and make application for membership in the **AMERICAN ASSOCIATION OF BOVINE PRACTITIONERS**. I agree to abide by its **by-laws**, to actively support its **objectives**, and to forward membership dues within sixth days of notice.

DATE \_\_\_\_\_

NAME \_\_\_\_\_  
Last First Middle

ADDRESS \_\_\_\_\_  
Street City County State

TELEPHONE \_\_\_\_\_ AVMA MEMBER \_\_\_\_\_

YEAR OF GRADUATION \_\_\_\_\_ SCHOOL \_\_\_\_\_ DEGREE \_\_\_\_\_

NATURE OF EMPLOYMENT (Practice, Teaching, etc.) \_\_\_\_\_

PERCENTAGE OF PRACTICE TIME DEVOTED TO CATTLE \_\_\_\_\_  
Dairy Beef

DUES ENCLOSED FOR THE PERIOD JANUARY \_\_\_\_\_ TO JANUARY \_\_\_\_\_, 19 \_\_\_\_ . \$15.00

COUNCIL ACTION \_\_\_\_\_

DATE \_\_\_\_\_ Signature \_\_\_\_\_

This is my Practice tip, Question, or Suggestion for our  
next issue of the **Bovine Practitioner**.

Mail to: Eric I. Williams, F.R.C.V.S., Editor  
1226 N. Lincoln  
Stillwater, Oklahoma 74074

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

© Copyright American Association of Bovine Practitioners; open access distribution.

# 6th International Congress on Cattle Diseases

(World Association for Buiatrics) August 16-20, 1970 — Philadelphia, Pa.

The Conference is hosted by the American Association of Bovine Practitioners and the National Mastitis Council.

The American Association of Bovine Practitioners appreciates the counsel and advice of the AVMA, and the financial support of the Food and Drug Administration; the U.S. Public Health Service; the Animal Health Division, Agricultural Research Service, USDA; and the DeLaval Separator Company.

## Who's Who on the Program

The following countries are represented: England, Canada, Denmark, France, Holland, Israel, Italy, Poland, Romania, West Germany, United States, USSR, and Yugoslavia.

**Aehnalt, E.**  
Hannover  
W. Germany

**Ahlers, D.**  
Hannover  
W. Germany

□ **Amadei, Daniele Madella**  
University of Bologna  
Italy

**Appleman, R. D.**  
University of Nebraska

**Andresen, P.**  
Veterinary College, Hannover  
W. Germany

**Ball, L.**  
Colorado State University

**Ballarini, Giovanni**  
University of Parma  
Italy

**Batis, J.**  
University of Ljubljana  
Yugoslavia

**Bargai, U.**  
Hachaklait, Tzoza  
Israel

**Bonneau, M.**  
Institute Merieux  
Lyon, France

**Brander, G. C.**  
Beecham Research Laboratories  
England

**Brglez, I.**  
University of Ljubljana  
Yugoslavia

**Brown, R. G.**  
Commercial Solvents Corp.  
Terre Haute, Indiana

**Butterweck, J. S.**  
Alberta, Canada

**Carroll, E. J.**  
Colorado State University

**Cottral, G. E.**  
U. S. D. A.  
Plum Island Animal Disease  
Laboratory  
New York

**Curtis, R. A.**  
University of Guelph  
Canada

**Daria, I. M.**  
Cluj, Romania

**David, J. S. E.**  
University of Bristol  
England

**Dodd, F. H.**  
NIRD  
University of Reading  
England

**Dirksen, G.**  
University of Munich  
W. Germany

**Drost, M.**  
University of California,

**Eastin, C. E.**  
University of Kentucky

**Eugster, A. K.**  
Colorado State University

◇ **Everett, R. W.**  
Cornell University  
New York

**Fischer, W.**  
Veterinary College, Hannover  
W. Germany

**Frerking, H.**  
Veterinary College, Hannover  
W. Germany

**Gailunas, P.**  
Plum Island Animal Disease  
Laboratory  
New York

□ **Gentile, Guiseppe**  
University of Bologna  
Italy

**Gledhill, B. L.**  
University of Pennsylvania

**Golikov, A. N.**  
Moscow Veterinary Academy  
USSR

**Gregorovic, V.**  
University of Ljubljana  
Yugoslavia

**Griffin, T.K.**  
University of Reading  
England

**Grigoryan, G.**  
Yerevan Zooveterinary Institute  
USSR

**Grunder, H. D.**  
Veterinary College, Hannover  
W. Germany

**Grunert, E.**  
Veterinary College, Hannover  
W. Germany

△ **Guthrie, R. S.**  
Cornell University  
New York

**Hamilton, G. F.**  
Colorado State University

**Herrick, J. B.**  
Iowa State University

**Hibbitt, K. G.**  
Agricultural Research Council  
Institute for Research on Animal  
Diseases  
Berkshire, England

**Ivascu, I.**  
Faculty of Veterinary Medicine  
Cluj, Romania

**Ivie, Ray**  
Follett, Texas

**Kalishin, N.**  
The Leningrad Veterinary  
Institute  
USSR

**Kendrick, J. W.**  
University of California

**Kenney, R. M.**  
University of Pennsylvania

◇ **Kingwill, R. G.**  
University of Reading  
England

**Klastrup, O.**  
State Veterinary Serum  
Laboratory  
Ringsted, Denmark

**Kleminc, N.**  
Veterinary Institute of  
Slovenia  
Yugoslavia

**Kondrakhin, I.**  
USSR Ministry of Agriculture

**Koopman, J. J.**  
Animal Health Service  
Holland

**Kramer, R.**  
Hannover  
W. Germany

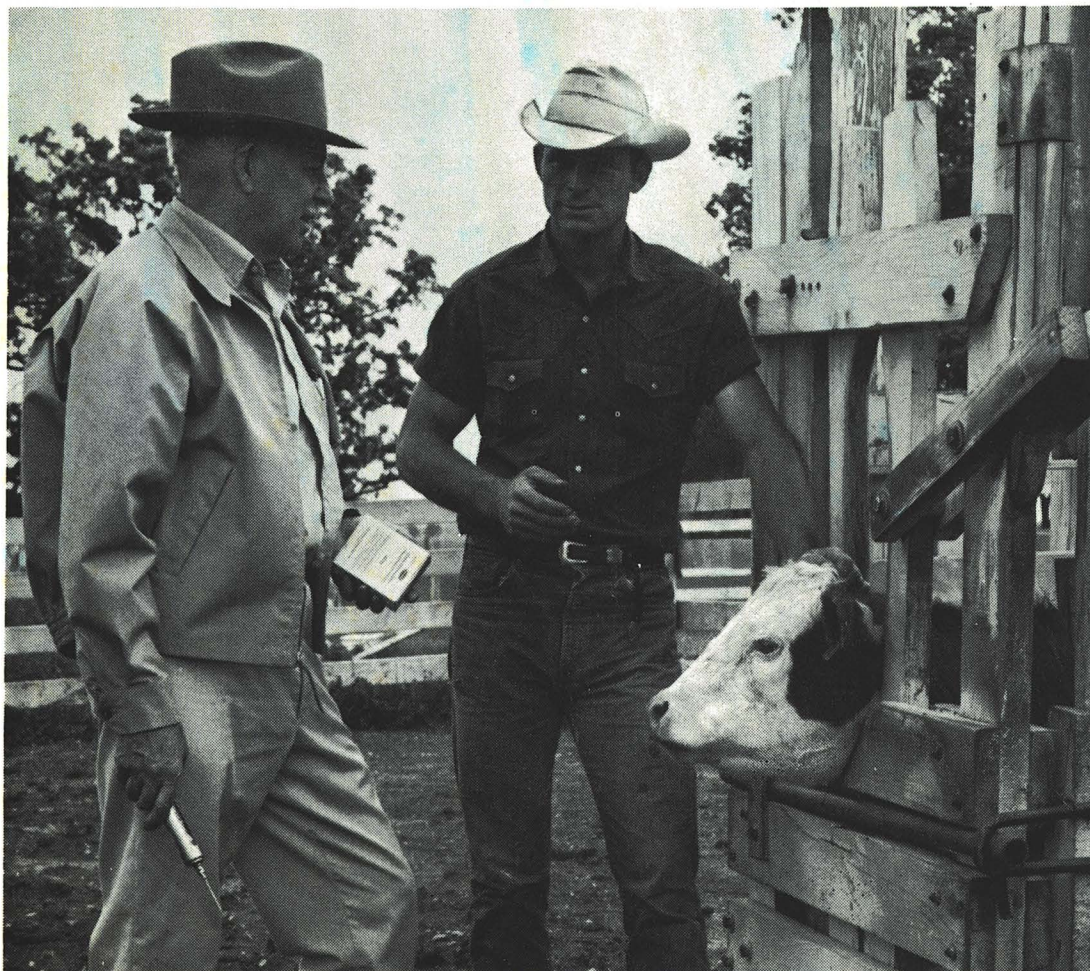
**Leonard, E.**  
Tully, New York

- Lotthammer, K. H.**  
Veterinary College, Hannover  
W. Germany
- Luhmann, F.**  
Veterinary College, Hannover  
W. Germany
- Lyubimov, E. I.**  
Moscow Veterinary Academy  
USSR
- McDonald, J. S.**  
U. S. Dept. of Agriculture  
Agricultural Research Service  
Iowa
- McFeeley, R. A.**  
University of Pennsylvania
- Manasyan, A.**  
Yerevan Zooveterinary Institute  
USSR
- Mantovani, Adriano**  
University of Bologna  
Italy
- Marsh, H. L.**  
Princeton, Illinois
- Mebus, A.**  
University of Nebraska
- △ **Meek, A. M.**  
Cornell University  
New York
- Meligsetian, S. G.**  
USSR Ministry of Agriculture
- △ **Merill, W. G.**  
Cornell University  
New York
- Miller, C. R.**  
Smith, Kline & French Laboratories  
Philadelphia
- Mitchell, K. F.**  
University of Pennsylvania
- **Morganti, Luigi**  
University of Bologna  
Italy
- Morrow, D. A.**  
Michigan State University
- Morse, G. E.**  
University of Pennsylvania
- Natzke, R. P.**  
Cornell University  
New York
- ◇ **Neave, F. K.**  
University of Reading  
England
- Nerkaryan, M.**  
Yerevan Zooveterinary Institute  
USSR
- Newbould, F. H. S.**  
University of Guelph  
Canada
- Noordsy, J. L.**  
Kansas State University
- Norcross, N. L.**  
Cornell University  
New York
- Ostmann, O. W.**  
Smith, Kline & French  
Laboratories  
Philadelphia
- Pilet, C.**  
National Veterinary School  
of D'Alfort  
Val de Maine, France
- Plank, P.**  
University of Munich  
W. Germany
- Platonow, Igor**  
Veterinary Laboratory  
Ministry of Agriculture  
Montreal, Canada
- Pohlentz, J.**  
Veterinary College, Hannover  
W. Germany
- Polyantsev, N.**  
Donskoi Agriculture Institute  
USSR
- Popov, Y.**  
Donskoi Agriculture Institute  
USSR
- Postle, D. S.**  
Cornell University  
New York
- Quadri, E.**  
Veterinary Department of the  
A. C. R.  
Rome, Italy
- Radostits, O. M.**  
University of Saskatchewan  
Canada
- Ramge, J. C.**  
Texas A & M University
- △ **Roberts, S. J.**  
Cornell University  
New York
- Roghetto, A.**  
Mondolfo (Pesaro)  
Italy
- Rosenberger, H. C.**  
Hannover  
W. Germany
- Sadovsky, N. V.**  
Orenburg Agricultural Institute  
USSR
- Saucier, A.**  
Veterinary Laboratory  
Ministry of Agriculture  
Montreal, Canada
- Schalm, O. W.**  
University of California
- △ **Schmidt, G. H.**  
Cornell University  
New York
- Sherobokova, M.**  
The Leningrad Veterinary Institute  
USSR
- Shishkov, V. P.**  
Moscow Veterinary Academy  
USSR
- Skusek, F.**  
University of Ljubljana  
Yugoslavia
- Smith, J. W.**  
Animal Husbandry Research  
Division, ARS  
U. S. Dept. of Agriculture  
Maryland
- Sommer, H.**  
University of Hohenheim  
W. Germany
- Storz, J.**  
Colorado State University
- Straub, O. C.**  
Federal Research Institute  
for Animal Virus Diseases  
Federal Republic of  
W. Germany
- Strober, M.**  
Veterinary College, Hannover  
W. Germany
- Tarkiewicz, S.**  
Faculty of Vet. Med.  
Agriculture College  
Lublin, Poland
- ter Heege, J. H.**  
Animal Health Service  
Assen, Holland
- Tharp, V. L.**  
Ohio State University
- Tolle, A.**  
Institute for Milk Hygiene  
Kiel  
W. Germany
- Urban, V.**  
The Leningrad Veterinary  
Institute  
USSR
- Uvarov, O.**  
Glaxo Laboratories Ltd.  
England
- Valette, L.**  
Institute Merieux  
Lyon, France
- Valge, L.**  
Estonian Agriculture Academy  
USSR
- Vospernik, P.**  
Veterinary Institute of  
Slovenia  
Yugoslavia
- Walker, D.**  
Auburn University  
Alabama
- Weigt, U.**  
Hannover  
W. Germany
- Weldy, M.**  
Wakarusa, Indiana
- ◇ **Westgarth, D. R.**  
University of Reading  
England
- White, G.**  
Wellcome Veterinary Research  
Station  
England
- Williams, Don E.**  
Ada, Oklahoma
- ◇ **Wilson, C. D.**  
Central Veterinary Laboratory  
Weybridge, England
- Wiltbank, J. N.**  
Colorado State University
- Young, M. F.**  
Texas A & M University
- Zemjanis, R.**  
University of Minnesota
- Ziv, G.**  
Kimron Veterinary Institute  
Bet-Dagan, Israel
- Zubkov, A.**  
The Leningrad Veterinary Institute  
USSR
- Zust, J.**  
Veterinary Institute of Slovenia  
Yugoslavia
- Zvereva, G.**  
Lvov Zooveterinary Institute  
USSR

□ Co-authors of A. Mantovani paper.

△ Co-authors of R. P. Natzke paper.

◇ Co-authors of F. H. Dodd paper.



## Results.

# Millions of calves can't be wrong.

Based on a 4-year record, with millions of calves vaccinated, Rea-Plex is the vaccine of choice in controlling IBR and PI-3—the two most common viruses associated with the respiratory and shipping fever complex. Results count—and Rea-Plex has helped reduce morbidity and mortality to levels far below the usually expected incidence. That is why Rea-Plex has been widely imitated—but never duplicated—it is produced by a patented process! The single 2 cc. dose is easy to administer—and easy on the calf. Available in 5 and 25 dose vials.

Since vaccines are not available to prevent all bovine viral diseases in the shipping fever complex, it is highly desirable to afford animals some degree of resistance against pasteurella invaders. Septobac fits this picture. A 2 cc. dose

of "Biotized" bacterin, Septobac is highly antigenic and the first pasteurella bacterin having an approved potency test for both *P. multocida* and *P. hemolytica*. Septobac is designed for use with Rea-Plex.

## Rea-Plex<sup>®</sup>

Infectious Bovine Rhinotracheitis—Parainfluenza-3 Vaccine

## Septobac<sup>®</sup>

Biotized<sup>®</sup> Pasteurella Bacterin

**FORT DODGE<sup>®</sup>**

Fort Dodge Laboratories, Fort Dodge, Iowa

BULK RATE  
U. S. POSTAGE  
PAID  
Permit No. 263  
Stillwater, Okla.

When your veterinarian hands  
you this box of "gelled base"  
Biotef<sup>®</sup> you're getting a superior  
dry-cow mastitis treatment.

**Ask him why!**

**Upjohn**

*Doctor, this ad appears in  
leading dairy magazines  
as a part of Upjohn's  
continuing support of the  
veterinary profession.*

**Biotef<sup>®</sup>**

Antibacterial and Anti-inflammatory  
For Udder Instillation in Dry Cows Only

**Upjohn**  
For the treatment and prevention of  
infection in the udder of dry cows.  
Biotef<sup>®</sup> contains the antibiotic cloxacillin sodium  
and the anti-inflammatory agent, phenylbutazone.

**DRY COW**

WARNING: Biotef is for use  
in dry cows only and must  
not be used later than 4  
weeks prior to freshening.

*from the makers of Special Formula 17900-Forte<sup>®</sup> — the leading lactating treatment.*

**Upjohn**

The Upjohn Company—Veterinary Products, Kalamazoo, Michigan 49001

