

American Association of Bovine Practitioners
Twentieth Annual Conference

Phoenix, Arizona
November 10-13, 1987
Specialty Seminars November 7-13

Schedule of Events

REGISTRATION

Hyatt Regency Phoenix - Atrium

Monday, November 9 — 7:00 a.m.-5:00 p.m.

Tuesday, November 10 — 7:00 a.m.-5:00 p.m.

Phoenix Civic Plaza — L2

Wednesday, November 11 — 7:00 a.m. — 5:00 p.m.

Thursday, November 12 — 8:00 a.m.-5:00 p.m.

Friday, November 13 — 8:00 a.m.-5:00 p.m.

WELCOME TO PHOENIX

Welcome to Phoenix and Valley of the Sun. Phoenix is the ninth largest city in the United States. Population of the Phoenix metropolitan area is approximately one and one half million. The Valley of the Sun is comprised of some 20 cities including Phoenix and Scottsdale. Phoenix weather is warm, dry, and delightful. The average yearly temperature for Phoenix and the Valley of the Sun is a balmy 72 degrees. Low humidity makes the summer heat comfortable. Phoenix averages sunshine 86% of all possible sunshine hours-between 295 and 306 sunny days - and only seven inches of rain each year. Average maximum temperature in November is 75 degrees and average minimum temperature is 45 degrees. Phoenix is a glittering, sophisticated metropolis, yet beneath it all is the casual life style of the Old West. Less than 100 years old, Phoenix offers cultural opportunities that rival the oldest of American cities.

The Museum of Anthropology and Primitive Art and The Phoenix Art Museum — were the inspiration of Maie and Dwight Heard who came from Illinois early in the twentieth century. The Heard Museum opened its doors in 1929 and houses more than 50,000 artifacts on the history and art of the Southwest. The Women's Club Art Exhibition Committee started a municipal art collection in 1915 by buying one painting a year from the State Fair. That one painting has evolved into the multi-million dollar Phoenix Art Museum on land donated by the Heards and now features painting, sculpture, and decorative arts from the 15th through the 20th centuries.

The art of shopping is not to be overlooked.

From the largest shopping center in the Southwest to the most elegant mall inspired by a village in the hills of northern Italy, from small, intimate boutiques to famous designer shops and large department stores. Phoenix/Scottsdale has the finest shopping to be found in the West.

Phoenix has a brand of cuisine that is distinctive as it is diversified. Sample cowboy-style dining offered by a host of restaurants. In one steak house, you can order a two-pound porterhouse, but don't wear a tie...er...it will be cut off and hung by the rafters along with 750,000 similar souvenirs. Another restaurant serves a whopping 250,000 steaks a year, averaging about 5,000 steaks a week, and this does not count the several tons of barbecued chicken and ribs.

Highly rated continental restaurants with world class style and service proudly flourish in the Valley of the Sun. International fares include Mexican, Mongolian, French, Italian, Polynesian, Chinese, Japanese, and Greek, to name only a few.

Combine the magnificent cuisine with sensational entertainment and you have an unbeatable combination.

Scenery is abundant and spectacular throughout Arizona. The Grand Canyon, Monument Valley, The London Bridge, Sedona, Oak Creek, and the Superstition Mountains are only a few hours away. You can see interesting desert plants such as the desert cactus...mysterious and exotic that can be as small as a thimble or as tall as 40 feet. It's spines shade the plant from the sun, and also help to channel moisture into the plant and provide protection from wildlife. The cactus can go for as long as four to five years without rainfall. Intrigued? You can learn more by visiting the Desert Botanical Garden where there's half of the World's 1,800 different species of cacti-native to Arizona, the remainder come from other arid lands.

Come to Phoenix and learn about the Indian tribes that lived and prospered here for centuries before the white man came and changed their way of life forever.

PUBLIC TRANSPORTATION

Phoenix Transit System provides scheduled bus service in Phoenix, Glendale and Scottsdale on weekdays and Saturdays, and in Tempe and Mesa on weekdays. For information on fares, times and routes call 257-8426.

The Phoenix Transit System also has designed a city tour using the public bus system. Other private bus companies also provide city tours.

Taxicab stands can be found at the airport, train and bus terminals and major hotels. Taxis are usually ordered by telephone. Most cabs do not cruise streets looking for passengers.

INVITATION FROM THE PROGRAM COMMITTEE

The 1987 Program Committee extends a cordial invitation to all AABP members, spouses, and guests to come to Phoenix and the Valley of the Sun for the 20th Annual Conference.

The long list of scientific seminars offers a wide variety of scientific material. There is also a total living seminar for veterinarians and their spouses. Attendance is limited so please register early.

The meeting theme is "Motivating People Towards Excellence". More than 40 hours of continuing education are available for a single registration fee. Practice tips, research summaries, general, dairy, and beef sessions, autotutorials, tours, and exhibits will provide ample learning and personal development opportunities. The Phoenix Convention Center is an excellent facility within walking distance of the convention hotels.

OPENING CEREMONIES

General Session I, Wednesday morning, "The Art of Motivation and Communication", should be an excellent session to set the tone of the meeting. Spouses and exhibitors are welcome and encouraged to attend this session.

Thursday evening — Cowboy Cookout at Rawhide, a replica of an old west town, enjoy a T-Bone steak in the wild west atmosphere — a fun time for both young and old.

The local arrangements committee has organized an abundance of activities for all spouses and guests. Well planned post convention tours include dairy, cow-calf and Grand Canyon.

Preparing this educational and social program for you has given us pride and pleasure. We are fortunate to have superior individuals to present our scientific program. Make plans now to come to Phoenix and the Valley of the Sun.

GREETINGS FROM THE PRESIDENT

GEORGE E. WASHINGTON

This is the year America celebrates her 200th anniversary of the signing of the Constitution. It is also the year that all members who come to the 20th Annual Conference of the American Association of Bovine Practitioners in Phoenix, will experience the "event of the year."

For the first time ever, we are having a "get-together" on Tuesday evening before the opening ceremonies of the conference. What better way is there to celebrate the opening of our meeting in the Valley of the Sun, than to have a "fiesta"? Furthermore, November is the perfect month to bring your family to Arizona to explore the desert of the south west, or to soar in a balloon above the desert floor, or to learn about the history of the Indian Civilization as early as 1000 A.D. There will be exceptional facilities for learning and comfort provided by the Phoenix Hyatt and Hilton Hotels, and the Convention Center which is next door.

The Program Committee has put together a high quality program which follows a format we have had for the last few years. There are nineteen seminars ranging from half day to three days in length, general and split, dairy and beef sessions, practice tips and research summaries. As you can see, there is an outstanding opportunity for your continuing education. Undoubtedly, there will be tough decisions to make on what you want to attend each day.

Committee meetings will be on Tuesday. Your officers and directors will be conducting business of the Association daily. Election of officers and presentations of the practitioner awards are the highlight of the Annual Business Luncheon.

Patti and I are happily anticipating seeing you and your spouses in Phoenix. We hope you will also plan, as we do, to take advantage of one of the post convention tours to either the Grand Canyon or to the beef or dairy farms in the area.

I want to thank everyone who has helped with the planning of this conference. I promise there will be events that will long be remembered!

AABP COMMITTEE MEETINGS

Tuesday, November 10 — 1:00 p.m.-3:00 p.m.

All committees except those otherwise listed will meet in the Phoenix room of the Hyatt.

Reproduction Committee

Chairman Erich Studer

Round Table Discussion

Reproductive Indices the Dairyman
and Veterinarian Need

Their Definition and Interpretation
Curtis A Room of the Hyatt

BOARD OF GOVERNORS MEETING

Tuesday, November 10

8:00 a.m.-1:00 p.m.

3:00 p.m.-5:00 p.m.

Wednesday, November 11

12:00 Noon-1:30 p.m.

Thursday, November 12

12:00 Noon-1:30 p.m.

Borein Room Hyatt

LUNCHEONS

Registrants

Wednesday, November 11 — 12:00 Noon

Tucson Room — Phoenix Civic Plaza

This luncheon is for all registrants, including exhibitors. Spouses have other activities scheduled and are not included. Tickets are provided in registration packets at no additional charge.

Registrants

Thursday, November 12 — 12:00 Noon

Tucson Room — Phoenix Civic Plaza

Same conditions as Wednesday luncheon except there will be a different meal provided. Drawing of names for the "Bovine Giveaway" will be done at this luncheon.

Annual AABP Business Meeting and Awards Luncheon

Friday, November 13 — 12:00 Noon

Tucson Room — Phoenix Civic Plaza

This luncheon is for AABP members only. All AABP members are encouraged to attend and sit in areas designated for their district.

Membership business will be conducted at this meeting. Highlights are presentation of awards, and election of officers. Tickets are included in member's registration packets.

SEMINARS

SEMINAR 1

Quality Milk

Fee: \$500.00 per person

Level: Advanced

Limit: 20

Location: Curtis B — Hyatt

Date: Saturday, Nov. 7—Monday, Nov. 9

Time: 8:00 a.m.-10:00 p.m. except Monday night

Faculty:

James A. Jarrett—Basic milking equipment function, analysis of milking equipment and transit voltage.

Paul Blackmer—Quality milk problems with relation

to high bacteria counts, off flavors, and evaluation of milking equipment in large herd management situations.

Robert Bushnell—Bacteriology and other management aspects of producing quality milk.

John Dahl—Evaluation of milking equipment in small dairy barns with emphasis on bucket milkers, current approaches to therapy and teat end pathology.

This in depth seminar will include the above listed areas as well as other areas associated with quality milk production. It includes a "hands on" farm visit as well.

SEMINAR 2-7

Faculty For Seminars 2-7

Don Bath, Davis, CA—Extension Dairy Nutrition Specialist, Member, NRC Dairy Nutrient Requirements Committee. U.C.D.

Loren Bennett, Davis, CA—Microcomputer Specialist, Computer Center, University of California—Davis.

Jim Farley, Merced, CA—Livestock Farm Advisor and microcomputer trainer. Cooperative Extension, U.C.D.

John Fetrow, Raleigh, NC—Veterinarian and Animal Health Economist, School of Veterinary Medicine, N.C.S.U.

Dave Galligan, New Bolton Center, PA—Clinician and Nutritional Counselor, School of Veterinary Medicine, U.P.

Bob Harman, Chino, CA.—Practitioner, epidemiologist, and President of Herd Technologies, Inc.

Ben Harrington, Raleigh, NC—Dairy Clinician, School of Veterinary Medicine, North Carolina State University.

Tal Huber, Tucson, AZ—Extension Dairy Specialist. Department of Animal Science, University of Arizona.

Dave Hutcheson, Amarillo, TX—Professor of Animal Science, Texas A&M Research and Extension Center, T.A.M.U.—Amarillo.

Neil Jorgensen, Madison, WI—Professor and Head of Dairy Science Department, Member NRC Dairy Committee, U. of W.

Terry Lehenbauer, Riverside, CA—Dairy practitioner, microcomputer user and epidemiologist.

Keith Lusby, Stillwater, OK—Extension Beef Cattle Specialist, Animal Science, Oklahoma State University.

Ken Nordlund, Fergus Falls, MN—Dairy practitioner and recipient Merck 1986 AABP Dairy Preventative Medicine Award.

Ben Norman, Davis, CA—Extension Veterinarian, Professional Animal Scientist, University of California—Davis.

Steven Smalley, Chandler, AZ—Dairy practitioner,

practices on large Arizona dairies. On-dairy liaison for Seminar 7.

Ed Sterner, Ionia, MI—Dairy practitioner and nutritional consultant. First AABP Veterinarian of the Year.

If you have any questions on Seminars 2-7, please call the seminar coordinator, Ben Norman 916-752-0853.

SEMINAR 2

Nutrition For The Practitioner

Fee: \$165.00

Level: Beginning

Limit: 125

Location: Navajo BCD—Hilton

Coordinator: Ben Norman

Phone: 916-752-0853

Date: Sunday, Nov. 8—Monday, Nov. 9

Time: 8:00 a.m.-5:00 p.m.

each day plus one evening session for beef and dairy interest groups

Faculty: Don Bath, Loren Bennett, Jim Farley, Neil Jorgensen, Tal Huber, Dave Hutcheson, Terry Lehenbauer, Keith Lusby, Edward Sterner

Description: This two day entry level seminar will provide the practitioner with the information and the vocabulary necessary to evaluate the place of nutrition in clinical practice. The first day will cover general nutritional concepts applicable to both dairy and beef cattle. The second day will be divided into beef and dairy sections for more detailed and practical coverage of the special needs of the beef and dairy animal. The nationally and internationally known animal science instructors are chosen for their high level of scientific competence and extensive field experience. A preview of the new National Research Council dairy cattle nutritional requirements will be presented. Classroom style with some time for questions. Handouts provided.

SEMINAR 3

Dairy Nutritional-Advanced Sessions 1,2,3

Dairy Advanced Session 1

Fee: \$99.00

Level: Advanced

Limit: 20

Location: Havasupai—Hilton

Date: Tuesday, November 10

Time: 8:00 a.m.-5:00 p.m.

One evening hour, same day

Coordinator: Ben Norman

Phone: 916-752-0853

Faculty: Same as in Seminar 2

Description: This one day course is limited to 20 practitioners per section. Completion of Seminar 2,

or basic nutritional knowledge or nutrition field problem solving experience is presumed. Several burning nutritional issues of clinical interest to dairy practitioners will be covered. Come prepared to discuss recent field problems. Much time will be provided for questions and answers in this seminar format. The seminar will be repeated in three sections. Evening sessions in the microcomputer lab will expose the participants to the use of microcomputer software to solve ration evaluation and formulation problems. Two dairy nutritionists will participate in each section to provide broad question answering capability. Handouts will be provided.

Dairy Advanced Session 2

Fee: \$99:00

Level: Advanced

Limit: 20

Location: Maricopa—Hilton

Date: Tuesday, November 10

Time: 8:00 a.m.-5:00 p.m.

Coordinator: Ben Norman

Phone: 916-752-0853

Faculty: Same as in Seminar 2

Description: Same as Advanced Session 1

Dairy Advanced Session 3

Fee: \$99.00

Level: Advanced

Limit: 20

Location: Havasupai—Hilton

Date: Wednesday, November 11

Time: 8:00 a.m.-5:00 p.m.—One evening hour

Description: Same as Advanced Session 1 & 2

SEMINAR 4

Beef Nutrition—Advanced

Fee: \$99.00

Level: Advanced

Limit: 20

Location: Pima—Hilton

Date: Tuesday, November 10

Time: 8:00 a.m.-5:00 p.m.—One evening hour

Coordinator: Ben Norman

Phone: 916-752-0853

Faculty: Same as in Seminar 2

Description: This one day course is limited to 20 practitioners. Completion of Seminar 2, or basic nutritional knowledge or nutritional knowledge or nutritional field problem solving is presumed. Several burning nutritional issues of clinical interest to beef practitioners will be covered. Come prepared to discuss your recent field problems. Much time will be given for questions and answers in this seminar format. Two beef nutritionists will participate in this section to provide broad question answering capa-

bility. An evening session in the microcomputer lab will expose the participants to the use of microcomputer software to solve ration evaluation and formulation problems. Handouts provided.

SEMINAR 5

Using Microcomputers For Rational Evaluation And Formulation In Clinical Practice

Fee: \$195.00

Level: Advanced

Limit: 20

Location: Gila—Hilton

Date: Sunday, November 8

Time: 8:00 a.m.-5:00 p.m.

Coordinator: Ben Norman

Phone: 916-752-0853

Faculty: Same as in Seminar 2

Description: Different microcomputer software will be explored in the all day hands on microcomputer lab for evaluation routine nutrition problems in dairy and beef herds. Completion of Seminar 2, 3, 4 or 6 and a knowledge of nutrition and nutritional vocabulary is presumed. From time proven elegant user friendly software to plain vanilla least-cost programs, the practitioner will be given a working exposure to the pros and cons of cost versus support versus ease of use. IBM compatible microcomputers will be provided for use by each 1-2 participants. Experienced nutritionists, veterinarians and microcomputer users will be the instructors. Handouts and a 5.25 inch disc with the Oklahoma State least cost ration program will be provided for take home.

SEMINAR 6

Microcomputing For The Bovine Practitioner

Fee: \$195.00

Level: Introductory

Limit: 20

Location: Gila—Hilton

Date: Tuesday, November 10

Time: 8:00 a.m. 5:00 p.m.

Coordinator: Ben Norman

Phone: 916-752-0853

Faculty: Same as in Seminar 2

Description: This is an introductory level course for clinicians to gain hands on experience with using microcomputers and software. IBM compatible microcomputers will be provided for use by each 1-2 participants. Ample numbers of experienced veterinarians and microcomputer users will provide instruction. This is not a discussion of practice business management software, but covers acquiring hardware, operating systems and using spreadsheets, word processors, statistical packages, electronic information

retrieval, databases, and records programs in practice situations. Handouts will be provided.

SEMINAR 7

Monitoring Dairy Problems With Records And Microcomputers

Fee: \$395.00

Level: Beginning through intermediate

Limit: 20

Location: Gila—Hilton

Date: Monday, Tuesday (in field) and Wednesday, November 9, 10, 11

Time: 8:00 a.m.-5:00 p.m.

Coordinator: Ben Norman

Phone: 916-752-0853

Faculty: John Fetrow, David Galligan, Robert Harmon, Ben Harrington, Kenneth Nordlund, Steve Smalley

Description: One of the finest groups of veterinary dairy specialists ever assembled will provide the instruction of this course. Days 1 and 3 will be spent in the microcomputer laboratory and day 2 will be spent on site on large local dairies (you will need overalls and rubber boots for this day). Specialized software will be available. Various proven trouble-shooting techniques will be used. Day 1 will include learning what parameters to evaluate with the software, and, day 3 will be spent in the microcomputer lab analyzing the data and developing useful reports and graphs to present the information in a convincing and useful manner. IBM compatible microcomputers will be provided for use by each 1-2 participants. Ample numbers of experienced veterinarians and microcomputer users will provide lab support. There will be handouts and some take-home software.

SEMINAR 8

Urogenital Surgery

Fee: \$40.00

Level: Intermediate to advanced

Limit: 30

Location: Curtis B—Hyatt

Date: Wednesday, November 11

Time: 8:00 a.m.-12:00 noon

Coordinator: Gatz Riddell

Phone: 205-826-4490

Faculty: Gatz Riddell

Description: Diseases, injuries, and conformation defects of the urogenital system are diagnosed with remarkable frequency and often affect not only the fertility, but even the life of the afflicted animal. This seminar will deal with the practitioners approach to such conditions both from the aspect of diagnosis and correction particularly where surgical interven-

tion is indicated. Indications for referral to a surgical facility will be detailed as not all surgical repairs can be classed as "field procedures".

Conditions of both the male and female will be covered in depth and the "economics" of all surgical decisions will be evaluated. Where possible, multiple procedures will be outlined to provide maximum flexibility in the approach to all of the problems. Please bring examples of personal experiences both problems and successes to share during the seminar, particularly during periods set aside for discussion. A comprehensive set of notes in outline form will be provided with the seminar to serve as a reference for future field application.

SEMINAR 9

Surgery Of The Bovine Digestive Tract

Fee: \$35.00

Level: Intermediate to advanced

Limit 30

Location: Remington A & B—Hyatt

Date: Wednesday, November 11

Time: 1:00 p.m.-5:00 p.m.

Coordinator: N. Kent Ames

Phone: 517-353-9710

Description: This seminar is a must for the haul-in practitioner and the field surgeon alike. When, where, how and why to perform digestive tract surgery of cattle plus pre and post operative management will highlight this session. Emphasis will be on technique and decision making concerning surgical disease of the forestomach, abomasum, and intestine. Clinical cases will be discussed and an outline will be provided. Plan on joining the discussion and be prepared to take home lots of valuable and useful information.

SEMINAR 10

APHIS Education For Accredited Veterinarians Doing Official Brucellosis Work

Fee: None

Level: All accredited Veterinarians

Limit: None

Location: Curtis B—Hyatt

Date: Tuesday, November 10

Time: 1:00 p.m.-5:00 p.m.

Coordinator: John D. Kopec

Phone: 202-447-6835

Faculty: Robert Sanders, Donald Bridgewater, Claude Barton, Jan D. Huber, John D. Kopec

Description: Meets requirement for continuing education for accredited veterinarians involved in official Brucellosis work. (See JAVAMA May 15, 1987 pp 1258.)

Accredited veterinarians performing official Brucellosis work are required to participate in a structured problem of continuing education on program elements. At least once every three years, attendance at an updated course is required. This program meets these requirements.

1:00-1:55 Pathogenesis, Immunology, Test Procedures and Diagnosis of Brucellosis.

1:55-2:35 Surveillance Procedures, Post-Movement Quarantine and Retest Requirements.

2:35-3:15 Epidemiology, Contact and Adjacent Herd Testing. Post-Quarantine Release Testing, Depopulation.

3:15-3:30 BREAK

3:30-4:10 Management Recommendation for the Infected Herd; Reduced-Dose and Adult Vaccination.

4:10-4:40 Current Program Progress, Goals, Recent and Anticipated Changes in Federal Regulations.

4:40-5:00 Questions and Answers.

Take advantage of this opportunity to fulfill requirements for continuing education for official services within the Brucellosis Eradication Program.

SEMINAR 11

Bovine Lameness A Through Z

Fee: \$100.00

Level: Intermediate through advanced

Limit: 30

Location: Curtis B—Hyatt

Date: Thursday, November 12

Time: 8:00 a.m.-5:00 p.m.

Coordinator: A David Weaver

Phones: 314-882-6877 (office) 314-874-2093 (home)

Faculty: A. David Weaver, Harold Amstutz, Jan Cermak, Ben McDaniel

Description: Lameness — A "How To..." Session
How To:

- appreciate that lameness costs dollars (Weaver)
- define the ideal claw (McDaniel)
- relate claw shape to conformation (McDaniel)
- select for stayability and yield based on claw shape (McDaniel)
- design housing for optimal "cow comfort" (Cermak)
- produce non-slip yet non-abrasive flooring (Cermak)
- feed and not cause laminitis (Amstutz)
- trim feet without causing more lameness (Amstutz)
- bandage feet (Amstutz, Weaver)
- use external fixation for fractures (Weaver)
- take the backache out of restraint for foot troubles (Amstutz)

- produce analgesia and do foot surgery (Weaver)
- install and operate a footbath (Cermak, Weaver, Amstutz)
- look at herd lameness problems (all instr)
- control interdigital disease (Amstutz, Weaver)
- Recognize specific paralyses (Weaver)
- and more.

Presentations will include video recordings

SEMINAR 12 **Embryo Transfer—Basic**

Fee: \$100.00

Level: Entry

Limit 30

Location: Room 27—Phoenix Civic Plaza

Date: Thursday, November 12

Time: 8:00 a.m.-5:00 p.m.

Coordinator: Joe Wright

Phone: 512-538-2154

Faculty: Joe Wright, Steve Hopkins

Description: This course is designed to help the practitioner with limited embryo transfer experience and those practitioners interested in starting embryo transfer procedures. Topics to be covered will include: superovulation, equipment and sterilization needs, media and additives, embryo recovery, embryo evaluation, surgical and nonsurgical transfer, recipient management, scheduling and embryo freezing and thawing.

SEMINAR 13 **Embryo Transfer—Advanced**

Fee: \$150.00

Level: Advanced

Limit: 20

Location: Room 32—Phoenix Civic Plaza

Date: Thursday, November 12

Time: 8:00 a.m.-5:00 p.m.

Coordinator: Edwin Robertson

Phone: 615-869-3666

Faculty: Edwin Robertson, Bruce Murphy, Bill Rall, Robert F. Rowe

Description: An in-depth study of folliculogenesis and superovulation in the normal and problem donor cows with emphasis on hormone therapy and nutritional management of these animals. Emphasis will be placed equally on dairy and beef donor animals including the Zebu breed as well. Attention will be paid to fertilization failures and successes. Cryopreservation discussion will include the physiology of dehydration, rehydration in the embryo, with discussion of various freezing solutions and techniques including freezing machines. The new concept of vitrification will be discussed and results of this procedure

will be given. (This involves the rapid freezing of embryos without conventional freezing equipment).

SEMINAR 14 **Solving The Dystocia Dilemma** **And Other Obstetrical Problems**

Fee: \$55.00

Level: Intermediate

Limit: 20

Location: Remington A & B—Hyatt

Date: Tuesday, November 10

Time: 8:00 a.m.-12:00 noon

Coordinator: Peter DeNooy

Phone: 403-922-5177

Faculty: Peter DeNooy

Description: This seminar will discuss general obstetrical procedures and concentrate on the Utrecht method of percutaneous fetotomy. The use of audiovisual materials will be combined with the actual performance of a complete fetotomy of both anterior and posterior presentation. A new chemical compound to alleviate obstetrical manipulations including uterine prolapses will be discussed. The instructor is a graduate of the University of Utrecht and has over ten years of practical experience in bovine obstetrics.

SEMINAR 15 **Dairy Production Medicine—Tools** **And Records For Results**

Fee: \$100.00

Level: Beginning to Intermediate

Limit: 20

Location: Remington A & B—Hyatt

Date: Thursday, November 12

Time: 8:00 a.m.-5:00 p.m.

Coordinator: Kenneth V. Nordlund—218-736-2980 and Jeffrey K. Reneau

Faculty: Ken Nordlund, Jeffrey Reneau

Description: This seminar will focus on delivery of reproduction, mastitis control, nutrition, and replacement rearing programs. The seminar will have 2 major themes: 1)Records, including analysis of DHIA records, establishment of supplemental records and the use of such records to measure progress, identify problems and motivate change. 2)Tools: Ideas, charts, and techniques to make delivery of production medicine programs easier, cleaner and therefore more attainable. One of the driving ideas is to complete the work on the farm, not in the home or office.

This seminar is oriented toward programs for smaller dairies and should be viewed as a basic level course. Several herd problem solving examples will be completed using the records and tools covered in the course.

SEMINAR 16
**The Integrated Approach To
Problem Solving On The Farm**

Presented in cooperation with the
American Association of Veterinary Practitioners

Fee: \$110.00
Level: Intermediate to advanced
Limit: 20
Location: Remington A & B—Hyatt
Date: Tuesday, November 10
Time: 1:00 p.m.-5:00 p.m.
Coordinator: Paul Coe
Phone: 517-353-9710
Faculty: Thomas Herdt, Steven Wikes, H. Fred Troutt

Description: This seminar is aimed at improving the diagnostic capabilities of the private practitioner confronted with herd problems involving diarrhea, respiratory disease or metabolic diseases. The speakers will focus on sample collection, diagnostic procedures which can be performed in a practice setting, and interpretation of results. This is a small group seminar with a limit of 20 participants, so come prepared with case histories and diagnostic problems you would like to discuss.

SEMINAR 17

Microbiologic Diagnosis Of Mastitis—Wet Lab

Fee: \$50.00
Level: Intermediate to advanced
Limit: 20
Location: Remington C & Russell A—Hyatt
Date/Time: Tuesday, Nov. 10, 1:00 p.m.-5:00 p.m.
and
Wednesday, November 11,
8:00 a.m.-12:00 noon

Coordinator: Gil Ward

Phone: 612-625-1727

Faculty: Gil Ward

Description: Supplies and procedures for culture, identification and susceptibility testing of bacteria, mycoplasmas and yeasts will be presented. Detailed notes describing procedures and sources of supplies will be provided. Demonstrations will include culturing, plates, and tubes of reactions and kodachrome slides. Bulk tank analysis and interpretation will be presented. The methods presented will be simple yet accurate using some newly developed rapid tests which are available commercially from several sources. Examples and results will be shown.

SEMINAR 18

**Total Living Seminar—
Family Relationships: Problems And Solutions**

Fee: \$20.00

Level: All ages and levels, especially spouses

Limit: 100

Location: Phoenix East—Hyatt

Date: Friday, November 13

Time: 8:00 a.m.-12:00 noon

Coordinator: Jo Ann Webber

Phone: 512-245-2157

Description: Emphasis in this seminar is on the family and development of skills for better communication and conflict resolution. Four topic areas will receive special emphasis. These areas are as follows: 1) Human Development 2) Control Issues 3) Motivation Techniques-preventing conflict and the art of compromise. 4) Assertive communication. If you've ever wanted to develop better methods of communicating with your family, this seminar should prove extremely valuable.

SEMINAR 19

**Total Living Seminar—The Professional
Work Relationship: Problems And Solutions**

Fee: \$20.00

Level: Intermediate

Limit: 50

Location: Curtis—Hyatt

Date: Friday, November 13

Time: 1:00 p.m.-5:00 p.m.

Coordinator: Jo Ann Webber

Phone: 512-245-2157

Description: The purpose of this seminar is to enhance our communications skills and understanding of employees and clients problems so that we can be more effective in shaping attitude and motivating positive behavior or response. Topic areas will include: 1) Motivation theory, 2) Personality and work styles, 3) Implications for interpersonal communication, 4) Building a team. If you've been trying to figure innovative ways to get employees and clients to make needed changes, this seminar is a must.

OPENING CEREMONIES

Tuesday, November 10

7:00 p.m.-7:30 p.m.

Location: Tucson—Phoenix Civic Plaza

Welcome and Invocation:

Michael Kerfoot, District X Director

President's Welcome:

George Washington, President A.A.B.P.

Welcome to Arizona:

Mark Trueblood

President Arizona Veterinary Medical Association

Guest Speaker:

Ray Russell

Special Assistant to the Governor of Arizona

PRACTICE TIPS
Tuesday, November 10
7:30 p.m.-10:00 p.m.
Rooms 21-25—Phoenix Civic Plaza
Robert G. Mortimer In Charge

Harry James, Pond Creek, OK—Providing Good Dispensing Facilities
John Cheney, Ft Collins, CO—Obtaining Good Sample for Trichomoniasis
Gordon Atkins, Calgary, Alberta—The Use of an IV Catheter Device to Facilitate Frequent on Farm IV Therapy — and
The Use of a Milker Vacuum Pump to Assist in Bovine Gastro-Intestinal Surgery
Jim Lewis, St. Paul, NE—Efficient Facilities for Handling Cattle
Richard W. Jones, Logan, UT—Sterilizing Calf Pens to Control Salmonellosis
Edward G. Robertson, Harrogate, TN—Automatic Release Tail Holder—OSHA Approved
Bill Kearly, Wendell, ID—Using Peak Milk Yield as a Monitor of Dairy Herd Production
Brent McKinnon, Tremountain, UT—Surviving or Thriving in Rural America
Garrett R. Oetzel, Ft. Collins, CO—A Nose Twitch for cattle
Richard E. Wiley, Wooster, OH—Controlling BUN Levels for Reproductive Performance
Pete Kilser, Tulare, CA—Reproductive Parameters of Bull Breeding in Dairy Herds
Andrew Johnson, Seymour, WI—Keeping Your Milking System Healthy — and
Stray Voltage Quick Check
Joseph M. Wright, Castroville, TX—Beef Cattle Breeding Tips
Ray Galbraith, Milverton, Ontario—Client Education—How We Do It—V.C.R., Newspaper Column, Newsletters, etc.
Mike Anderson, Lynden, WA—“Superbill” Invoicing for the Mixed Practice and a Couple of Other Ideas
Robert Darlington, Snohomish, WA—Casting a Cow — and
Tips on Rectal Exams
Paul E. Johnson, Enterprize, AL—Expanding Veterinary Services Within an Existing Dairy Herd Health Program
John Andreas, Maryville, OH—Miscellaneous Tips for the Dairy Practitioner
Alyn M. McClure, Gilbert, AZ—How we Use the DHI Center to Help Us Evaluate the Effects of Intrauterine Infusion
Larry Lanzon, Turlock, CA—A Poor Man’s Incubator for Microbiology

Frank Mongini, Cotati, CA—Dairy Practice Tips from Cotati

RESEARCH SUMMARIES
Tuesday, November 10
7:30 p.m.-10:00 p.m.
Rooms 27-35—Phoenix Civic Plaza
Robert B. Bushnell In Charge

Monitoring the Bovine Fetus to Determine Abnormalities Leading to Fetal Death—**Don Schlafer**, Ithaca, NY
Effect of Vaccination with E. coli on the Incidence of Acute Mastitis—**Larry Smith**, Lodi, WI
Strategic Worming of Cattle in Pasture Using Fenbendazole Administered in a Mineral Salt Mix—**Robert Syvrud**, Polson, MT
Controlling Internal Parasites Using Levamisole Topical Pour on—**John Briddell**, Washington Crossing, NJ
Selenium Supplementation of Weaned Beef Calves with a Salt Free Mineral Mixture—**Terry Swecker**, Blacksburg, VA
Genetically Engineered Products for Use by Practitioners—**E. E. Wedman**, Corvallis, OR
Abmosal Cryptosporidiosis in Cattle—**Bruce Anderson**, Caldwell, ID
The Sensitivity and Specificity of Commercially Available Cowside Milk Progesterone Tests—**Ken Leslie**, Guelph, Ontario
Gossypol Poisoning in Holstein Calves—**Walt Guterbok**, Ontario, CA

AUTOTUTORIALS
Rooms 26 & 31—Phoenix Civic Plaza
Milton Adsit In Charge
Tuesday, November 10—1:00 p.m.-5:00 p.m.
Wednesday, November 11—9:00 a.m.-5:00 p.m.
Thursday, November 12—9:00 a.m.-5:00 p.m.
Friday, November 13—9:00 a.m.-12:00 noon
Autotutorials will be available for your viewing.
We hope you will use, enjoy and learn from them.

SCIENTIFIC SESSIONS*
GENERAL SESSION I
The Art of Motivation and Communication
Wednesday, November 11
8:00 a.m.-12:00 noon
Yuma Rooms (21-35)—Phoenix Civic Plaza
David G. McClary—Presiding
Did you ever notice how some individuals are successful at motivating themselves and their clients to do a better job? General Session I features a group of individuals who excel in the art of self and client motivation and communication. Included in the

group of outstanding speakers are Ms. JoAnn Smith, Past President of the Beef Promotion Board and Mr. Robert E. Henry nationally renowned speaker, humorist, and motivator. Robert is past president of the National Speakers Association.

Also on the program is a blue ribbon panel of bovine practitioners who will share some of their techniques for dealing with people. This session should be one of the most informative and entertaining sessions ever presented at an AABP meeting. Spouses and exhibitors are welcome and encouraged to attend this session.

- 8:15 - 9:00 Motivation and Communication: The Clients Perspective—**JoAnn Smith**
- 9:00-10:00 Win With A.C.E.S.—**Robert E. Henry**
- 10:00-10:30 Break
- 10:30-12:00 How I Motivate and Communicate with Clients in My Practice (15 Minutes each)—**Jim Jarrett, Kenneth Nordlund, Dee Griffin, Andrew Johnson, Tom Fuhrmann, and Tim Jordan**

*Instatape will be taping the Scientific Sessions and marketing them

GENERAL SESSION II

Infectious Disease Update

Wednesday, November 11

1:30 p.m.-5:00 p.m.

Yuma Rooms (21-35)—Phoenix Civic Plaza

John A. Smith—Presiding

General Session II is intended to give the practitioner the most recent information available on four common and important bovine infectious diseases. Presentations are made by a group of speakers who are leading authorities in their assigned topics. General Session II is co-sponsored by AABP and the American College of Veterinary Internal Medicine.

- 1:30 Bovine Virus Diarrhea—**Ruben Donis**
- 2:15 Bovine Infectious Keratoconjunctivitis—**Lyle George**
- 3:00 Break
- 3:30 Bovine Lymphosarcoma Virus—**Janice Miller**
- 4:15 Johnes Disease—**Robert Whitlock**

GENERAL SESSION III

Promoting and Protecting Our Food Supply

Thursday, November 12

8:00 a.m.-12:00 noon

Rooms 21-23—Phoenix Civic Plaza

Thomas Fuhrmann—Presiding

As food animal practitioners we are commonly called upon for our expertise in animal nutrition, yet how much do we know about our own nutritional needs? As community leaders we are in an excellent

position to promote the nutritional value of our clients' meat and milk products and dispel erroneous and misleading information concerning these foods. To provide us with this useful information we invited two outstanding human nutritionists to be on our program. Mr. John Francis is the Vice President of the Beef Industry Council and Ms. Marilyn Wilkinson is Director of Public Relations for United Dairy Industry Associates. They will speak on the nutritional value of beef and dairy products respectively, and the need for these foods in the daily diet. The second portion of the session will deal with the veterinarian's role in protecting food products from zoonoses and residue contamination. Drs. West, Griffin, and Fuhrmann are considered authorities in zoonoses prevention and quality assurance programs.

- 8:00 - 8:40 Promoting the Nutritional Value of Beef—**John Francis**
- 8:40 - 9:20 Promoting the Nutritional Value of Dairy Products—**Marilyn Wilkinson**
- 9:20-10:00 Zoonoses and the Food Animal Practitioner—**George West**
- 10:00-10:30 Break
- 10:30-11:10 The Veterinarian's Role In Maintaining Quality Assurance in Beef Products—**Dee Griffin**
- 11:10-11:45 The Veterinarian's Role in Maintaining Quality Assurance in Dairy Products—**Tom Fuhrmann**
- 11:45-12:00 Questions and Answers — Panel of Speakers

GENERAL SESSION IV

Real Life Bovine Pharmacology

Thursday, November 12

8:00 a.m.-12:00 noon

Rooms 28-35—Phoenix Civic Plaza

W. G. Huber—Presiding

General session IV will offer the practitioner practical information on the physiological response of various organ systems to disease processes. This information will then be related to potential responses by these systems to therapeutic agents. The group of speakers selected for General Session IV are considered authorities in their assigned areas. General Session IV is co-sponsored by AABP and American Academy of Veterinary Pharmacology and Therapeutics.

- 8:00 Physiology and Pharmacology of the Bovine Respiratory System: Pneumonia—**Ed Robinson**
- 8:40 Physiology and Pharmacology of the Bovine Gastrointestinal Systems: Diarrhea and Enteritis—**William Jenkins**
- 9:20 Physiology and Pharmacology of the Bovine

- Mammary Gland: Mastitis—**Kevin Anderson**
 10:00 Break
 10:30 Physiology and Pharmacology of the Bovine Reproductive Tract: Retained Placenta and Related Diseases of the Postpartum Uterus—**Kathy Bretzlaff**
 11:10 Controversies in Bovine Therapeutics: The Extra Label Drug Question—**Glen Hoffsis**
 11:45 Questions and Answers—Speakers

DAIRY SPLIT SESSION I

Veterinarians and the Dairyman's Bottom Line

Co-sponsored by

(The Academy of Dairy Veterinary Consultants)

Thursday, November 12

1:30 p.m.-5:00 p.m.

Rooms 21-23—Phoenix Civic Plaza

Donald J. Klingborg—Presiding

- 1:30-2:15 For Whom Will You Be Working in the Year 2000?—**John Siebert**
 2:15-3:00 Assessing the Financial Health of a Dairy Enterprise—**Hal McCawley**
 3:00-3:30 Break
 3:30-4:15 Economic Aspects of Nutritional Monitoring—**David T. Galligan**
 4:15-5:00 Replacement Heifer Management: What is Important—**Art Donovan**

DAIRY SPLIT SESSION II

Managing Environmental Stress

Friday, November 13

8:00 a.m.-11:50 a.m.

Rooms 27-35—Phoenix Civic Plaza

Walter M. Guterbock—Presiding

- 8:00 - 8:50 Health and Physiology of Young Dairy Calves Exposed to Cold—**Richard E. Rawson**
 8:50 - 9:40 Practical Heat Stress Management—**Paul Johnson**
 9:40-10:10 Break
 10:10-11:00 Udder Health and the Confinement Freestall Barn—**Allan M. Britten**
 11:00-11:50 Effect of Design and Management of Confinement Housing on Behavior of the Incidence of Lameness—**Jan Cermak**

DAIRY SPLIT SESSION III

New Approaches to Old Problems

Friday, November 13

1:45 p.m.-4:35 p.m.

Rooms 27-35—Phoenix Civic Plaza

Carlos A. Risco—Presiding

- 1:45-2:05 Theory and Management of the Downer

Cow—**Victor Cox**

- 2:05-2:55 Culling Dairy Cows—**John Fetrow**
 2:55-3:45 Diagnostic and Therapeutic Strategies for Colostrum Deprivation in Calves—**Elaine Hunt**
 3:45-4:35 Effects of Protein and Fats on Fertility in Dairy Cows—**J. D. Ferguson**

BEEF SESSION I

Cow-Calf Feedlot Combined

Thursday, November 2

1:30 p.m.-5:00 p.m.

Rooms 28-35—Phoenix Civic Plaza

Tim Jordan—Presiding

- 1:30-2:15 Causes and Avoidances of the Failure of Passive Transfer of Colostral Immunoglobulins in the Calf—**Clive Gay**
 2:15-3:00 Enteric Pathology—**Bob Glock**
 3:00-3:30 Break
 3:30-4:15 External Parasites—What's New That You Need to Know—**Bill Climer**
 4:15-5:00 Respiratory Disease Relationships and Interactions—**Ned Brown**

BEEF SESSION II

Feedlot

Friday, November 13

8:00 a.m.-11:50 a.m.

Rooms 21-23—Phoenix Civic Plaza

Dee Griffin—Presiding

- 8:00 - 8:50 Trace Element Deficiency with Special Reference to Cooper—**Clive Gay**
 8:50 - 9:40 Respiratory Pathology—**Bob Glock**
 9:40-10:10 Break
 10:10-11:00 A Discussion on Grubs; Feedyards to Packers—**Bill Climer**
 11:00-11:50 Bovine Respiratory Syncytial Virus—Some Interesting Questions to Consider—**Ned Brown**

BEEF SESSION III

Friday, November 13

1:45 p.m.-5:00 p.m.

Rooms 21-23—Phoenix Civic Plaza

Raymond A. Ivie—Presiding

- 1:45-2:35 MGA and Prostaglandin for Estrous Synchronization—**Ken Odde**
 2:35-3:25 Evaluating Reproductive Efficiency in Beef Cow Herds—**W. Duane Mickelson**
 3:25-4:15 Cow/Calf Production Management —**Mark F. Spire**
 4:15-5:00 Trouble Shooting Cow/Calf Operations—**Danny Simms**

SOCIAL EVENTS

FIESTA

Tuesday, November 10

5:30 p.m.-7:00 p.m.

Hall D—Phoenix Civic Plaza

Bring your spouse and enjoy some southwest hospitality at our pre-convention get together. Sample the plentiful buffet of southwest food specialties and listen to the delightful music of a strolling mariachi band. A great time to renew old friendships and plan your weeks activities prior to the opening of the convention.

COWBOY COOKOUT—RAWHIDE

Function I

Thursday, November 12

5:15 p.m.-10:15 p.m.

WILD-WILD-WEST WAHOOOO — Your group will travel in comfortable buses that will whisk you out to the desert for a fun-filled evening. You will dine on a sixteen-ounce cowboy T-bone steak, salad, cowboy beans, hot bread and butter. Enjoy real western hospitality! A hayride is included of course. In the western tour you can visit the old shops filled with fascinating memorabilia. See Gunfights, try tin-type photos, and gambling too. A fun time for young and old, single or couples. \$30 per person.

SPOUSE ACTIVITIES

A hospitality room (Cowboy Artists) will be available Tuesday through Friday in the Hyatt Hotel where you can greet old and new friends. Refreshments will be supplied.

You are encouraged to participate in the following scheduled activities with your veterinarian spouses.

Tuesday: November 10—5:30 p.m. Fiesta

Tuesday: November 10—7:00 p.m. Opening Ceremony

Tuesday, November 10—7:30 p.m. Spouse Program

Thursday, November 12—5:15 p.m. Cowboy Cookout (Rawhide)

The following have been scheduled for your pleasure and education.

SPOUSE PROGRAM

Function D

Tuesday, November 10

7:30 p.m.-9:00 p.m.

Phoenix Room—Hyatt Hotel

INDIAN ARTS AND CULTURE

The warmth, creativity and beauty of Indian arts have enhanced and intrigued visitors to the Southwest for many years. Combine an absorbing talk on

the history and lore of South-western Indian arts and crafts with an exhibit of authentic items; jewelry, pottery, rugs, zachinas, baskets and sandpaintings. Learn about the Navajo, Hopi, Zuni and Pueblo designs and how they evolved. Explore what to look for when selecting pieces for purchase and how to distinguish hand-crafted from machine-produced items. A unique presentation by experts will expand your understanding and heighten your appreciation of the Southwest and native American artists. No charge.

TOURS

The Local Arrangements Committee has arranged numerous exciting and educational tours for us. I hope many of you will participate in the tours before, during and after the meeting.

A minimum number of participants will be required for the tours to operate. We reserve the right to cancel any tours that fail to attract the necessary number of participants. Universal Meeting Convention Services will prominently post such cancellations at the registration desk and AABP will refund the tour fee when a tour is cancelled. Prepaid tickets will be picked up at the Tour Company's registration desk. Additional tickets will be on sale at this desk based on the availability at time of attempted purchase. Tours will depart and return at the Monroe Street entrance of the Hyatt Regency Phoenix Hotel.

OPTIONAL TOURS

Tuesday, November 10

Function A

DELUX GRAND CANYON AIR TOUR

8:00 a.m.-2:30 p.m.

After showing you the canyon from air, we land for a 2 hour guided tour of the south rim, a pleasant lunch, and a little time for browsing. A great day and an unforgettable experience! 4 person minimum — \$185.00 per person.

Function B

TRAILRIDE—12:00 noon-4:00 p.m.

What could be more beautiful than a ride in the desert? We'll pick you up at your hotel and whisk you off for the adventure of 2 hours of horseback riding. Join Arizona wranglers and happy horses. See the beauty of the Arizona cactus and revel in our desert air. 10 person minimum—\$30.00 per person.

Function C

DESERT EXCURSION—12:00 noon-4:00 p.m.

Enjoy a four wheel drive through some of this state's most beautiful desert. Your driver guide will explain plant and animal life, rock formations, Indian culture, and survival tactics. Be sure to bring your camera because the endless views are breathtaking. 4 person minimum—\$50.00 per person.

SPOUSE TOUR

Wednesday, November 11

HEARD/TALIESIN—10:00 a.m.-3:30 p.m.

Discover the art of ancient Indian cultures, as well as the dynamic works of the contemporary Indian artists—all displayed at the world famous Heard Museum. The gift shop is a treasure house of the finest Indian arts and crafts. We'll then visit the famous working foundation of one of the world's most discussed architects, Frank Lloyd Wright. Taliesin West is the culmination of Wright's dreams, where his work goes on. Architects and students are in residence at Taliesin, living and working in an unusual communal setting. The tour is a rare opportunity to become acquainted with the works and philosophy of this famous man.—\$24.00 per person.

SPOUSE TOURS

Thursday, November 12

Function F

BOTANICAL GARDENS/ZOO

9:30 a.m.-3:00 p.m.

The Desert Botanical Gardens provide a natural setting for over fourteen hundred species of different cacti and other unusual plants. Also included are rare desert birds and other animals common to the desert. A fascinating tour into the strange and beautiful world that is the Southwestern Desert.

Ride a safari train, pet a deer, giggle at the gorillas. The Phoenix Zoo has 1200 animals roaming in natural habitats. Most can be viewed without the usual bars and cages. Monkeys and gibbons scamper around on islands in one of the Zoo's lakes. Orangutans climb and clown in the cool shade of a dome-shaped canopy. Lions and tigers prowl in large open spaces. Popular exhibits are the lowland gorilla, Hazel, and the new Arizona Exhibit with native animals in their natural settings.—\$24.00 per person.

Function G & H

SHOPPING SHUTTLE TO FIFTH AVENUE &

THE BORGATA—9:30 a.m.-3:30 p.m.

You will travel through the sprawling city past elegant homes and resorts in Paradise Valley and Scottsdale to visit the fabulous Fifth Avenue-Borgata shopping areas. Here you will find items from throughout the world and the finest selection of Arizona souvenirs and handcrafts. Over 350 unique shops to visit! Quaint restaurants abound.

G—1st Run—Bus departs hotel at 9:30, Depart 5th Ave., at 1:00, Returns to hotel by 1:45.—\$21.00 per person.

H—2nd Run—Bus departs hotel at 11:15, Departs 5th Ave., at 2:30, Returns to hotel by 3:30.—\$10.00 per person.

SPOUSE PROGRAM

Friday, November 13

Function J

A GUIDED FANTASY—DAYDREAMS FOR ADULTS—9:00 a.m.-10:30 a.m.

Phoenix West—Hyatt

Daydreams and fantasies are healthy forms of a stress management system which is much less elaborate and structured than many of the popular/current high cost self help seminars on the market today. The speaker will begin by reviewing three basic low key relaxing techniques. He will then introduce the audience to daydream methodology and take you on a journey through three guided fantasies. You will have ample opportunity to share your journeys, but most important of all, you will have the knowledge of how to put what you have learned to immediate daily use.

Saturday, November 14 and Sunday November 15

Function K

OVERNIGHT MOTOR TRIP TO THE GRAND CANYON

An overnight trip to the Grand Canyon via Sedona/Oak Creek. Saturday, November 14—8:00 a.m.—Sunday, November 15, 5:00 p.m. From Phoenix, it's on to Sedona in the Red Rock Country. Majestic red mountains, lush green forests, and cool pines contrast with the desert below. Once in Sedona, you will visit Tlaquapaque, a renowned arts and crafts center. You will see Chapel of the Holy Cross, set on a two hundred-and-fifty-foot peak! Climb up and up through the fabulous Oak Creek Canyon and on to Flagstaff. From there it's on to the Grand Canyon! Here you'll fall in love with a natural wonder. Sheer rock walls plunge nearly a mile down to the winding Colorado River through ten million years of geologic sculpture. Price includes bus, driver, tour, lodging, and entrance fees to Grand Canyon National Park.

Based on 20 per bus — \$120.00 per person. (Due to limited room availability on this trip, the pre-registration DEADLINE is SEPTEMBER 14th. Refunds up to 30 days prior to trip.)

MINIMUMS—FOR TOURS TO OPERATE

We reserve the right to cancel any tours that fail to attract the necessary number of participants. Universal will prominently post such cancellations at the registration desk and AABP will refund your money there.

Prepaid tickets must be picked up at the Tour Company's registration desk. Additional tickets will be on sale at this desk based on availability at time of purchase. Tours depart and return at Monroe Street entrance of Hyatt Hotel.

DAIRY TOUR

Saturday, November 14

Function L

This tour will visit the Higley and Gilbert area where many of Maricopa Country's 60,000 dairy cows live. Dairies that range in size from 200 cows to 4,000 cows will be visited.

Highlights of the tour will be discussing management and herd health problems with consulting veterinarians and herd managers. A catered steak lunch will be provided. The tour will leave the hotel area at 8:00 a.m. and return to the airport and/or hotel at approximately 2:00 p.m. Cost of the tour is \$30.00 for a minimum of 30 and no upper limit.

COW-CALF TOUR

Saturday, November 14 and Sunday, November 15

Function M

It is going to be "home on the range" on November 14th and 15th when the cow-calf tour takes off for the high country of East Central Arizona. Featured on the tour will be lectures by Dr. James Wiltbank, reproduction physiologist and Dr. Lyn James, plant pathologist and poison plant expert.

Cattle handling facilities, range and forage management schemes and a chance to see "ranch life out west" make this tour a special event. Visitation will include ranches using the Savory cell intensive pasture system, a desert cattle operation, as well as traditional high plateau ranches.

The scenery will be varied, unusual and magnificent as the tour travels north from Phoenix, gradually leaving the desert behind. The first stop is the low pine country near Payson for a real cowboy breakfast. Then up the Mogollan Rim to the high plateau area around Snowflake and St. John's. Saturday night we'll be in the Springerville area. Sunday, November 15th, the tour will travel through the White Mountains to Apache Indian Ranch Country and back to Phoenix through the Salt River Canyon.

This tour will be for those interested in the cow-calf business and at the same time, enjoy some of the scenic wonders of Arizona.

Cost of the trip is \$100.00, which includes lodging, cowboy breakfast on Saturday and traveling expenses. The tour leaves Phoenix at 7:00 a.m. Saturday, November 14th and arrives back in Phoenix Sunday 4:00 p.m. November 15th.

EXHIBITS

The professional exhibits will be located in Hall D, Phoenix Civic Plaza hereinafter referred to as the Exhibits Area.

The exhibits will open at 2:00 p.m. Tuesday, November 10 and close at 4:30 p.m. Thursday, November 12.

The daily schedule is as follows: (Please note change compared to past years)

Tuesday, November 10 2:00 p.m.-6:30 p.m.

Wednesday, November 11 9:00 a.m.-5:30 p.m.

Thursday, November 12 9:00 a.m.-4:30 p.m.

Please visit the exhibits whenever possible during the meeting since they are an important part of this conference and deserve our full support.

Wednesday, Thursday, and Friday luncheon will be served in the exhibit area. Tickets to Wednesday and Thursday luncheon will be given to all paid registrants, exhibitors, speakers and guests. Tickets to Friday's luncheon will be given only to AABP members. Refreshments will be served in the exhibit area during morning and afternoon program breaks.

VETERINARIANS CAN WIN PRIZES BY VISITING THE EXHIBITS

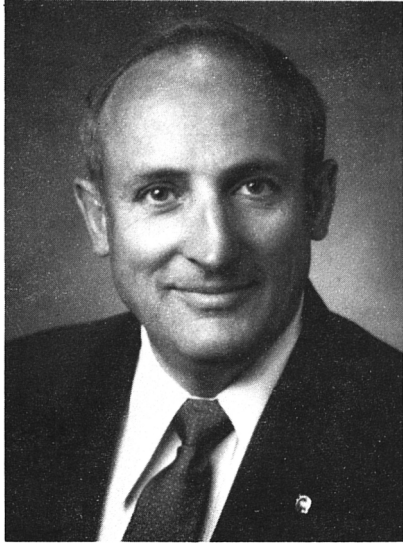
RULES AND DETAILS OF THE "BOVINE GIVEAWAY"

Prizes: Ten (10) at \$50.00 each.

Eligibility: All veterinarians registered at the AABP conference.

Rules:

1. Business cards will be the drawing ticket. Bring 80 business cards and visit the exhibits. Each exhibitor will have a milk bottle, provided by the AABP, into which these business cards will be placed.
2. The AABP Board of Directors will hold a drawing to decide the ten bottles from which the business cards will be drawn.
3. The main drawing will be held at the Thursday noon luncheon and annual business meeting of the AABP. At this time, one business card will be drawn from each of the lucky ten bottles. This will be limited to one prize per veterinarian. Winners need not be present to collect.
4. Business cards and milk bottles will become the property of the exhibitor in whose booth the bottle was placed, after the drawing.



*Samuel Hutchins, 3rd, DVM
South Barre, VT
Exhibits Manager*

1987 AABP Conference Exhibitors

EXHIBITS-Exhibit Hall

Please remember our exhibitors are supporting us at this meeting in a major way. Let's visit their booths and show them we appreciate their support. Visit them anytime they are open but especially during the two luncheons in the area.

EXHIBIT FLOOR PLAN Phoenix Civic Plaza Phoenix, Arizona Exhibit Hall D

1987 EXHIBIT TIME SCHEDULE

EXHIBIT SETUP

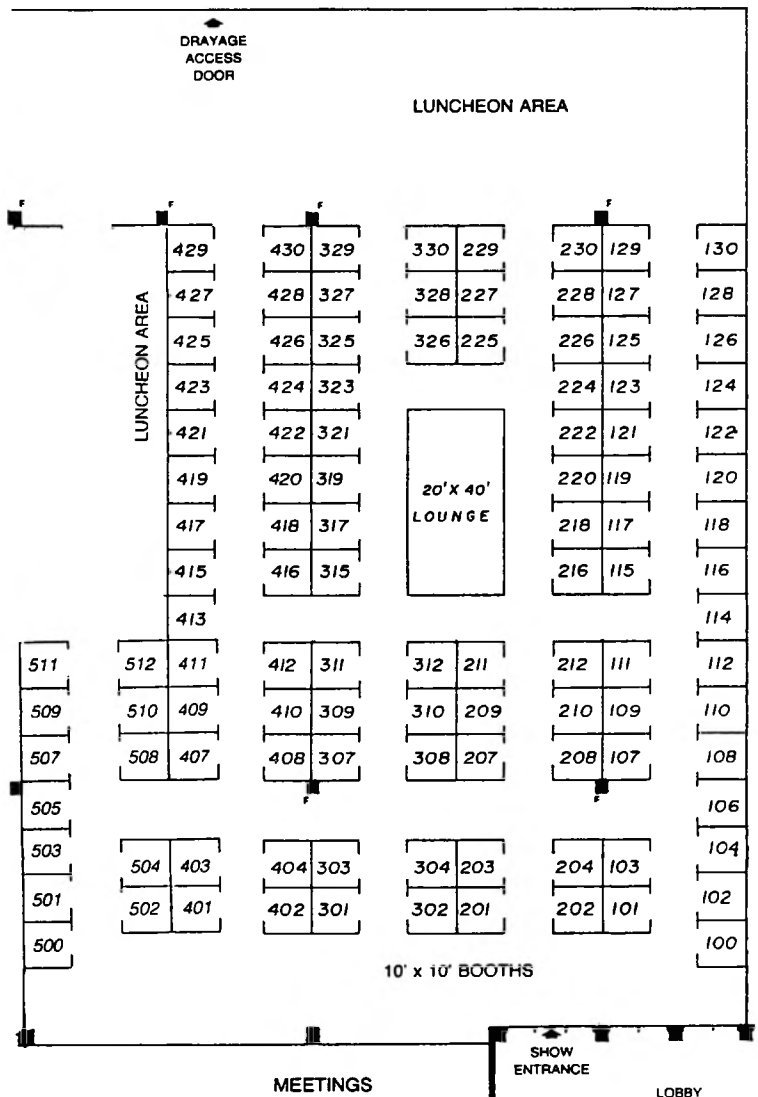
Monday, November 9 1:00 PM — 6:00 PM
Tuesday, November 10 8:00 AM — 1:00 PM

EXHIBIT HOURS

Tuesday, November 10 2:00 PM — 5:00 PM
Wednesday, November 11 9:00 AM — 5:30 PM
Thursday, November 12 9:00 AM — 4:30 PM

EXHIBIT TEARDOWN

Thursday, November 12 4:30 PM — 10:00 PM
Friday, November 13 8:00 AM — 2:00 PM



Agri-Sales Associates

212 Louise Ave.
Nashville, TN 37203

The full line of Rubbermaid agricultural products as well as Y-Text Ear Tags.

Albion Laboratories, Inc.

101 N. Main, Box 750
Clearfield, UT 84015

Displaying a complete nutritional program featuring Albion's patented Chelated Minerals in formulas designed for reproduction.

American Breeders Service

P. O. Box 459
DeForest, WI 53532

The display features Alcide® brand UDDERGOLD Germicidal Barrier Tear Dip used in reducing the spread of organisms which may cause mastitis. It includes product samples, pictures, and printed material explaining the properties and efficacy of the product.

American Cyanamid

One Cyanamid Plaza
Wayne, NJ 07470

American Cyanamid will be displaying its Cattle Health Products — Tramisol® Cattle Wormer, Warbex® pour on, Guardian™ Cattle Ear Tags, Vigilante® insecticide, Aureo S700® medicated premix and Aureomycin® medicated premix. Technical Service and Sales Personnel will be present.

American Diagnostic Sales, Inc.

P. O. Box 5117
Westport, CT 06881

American Diagnostic Sales, Inc., will display and demonstrate three new kits for reproductive management: *Calfcheck*, a milk progesterone test for determining estrus and non-pregnancy, *Heifercheck*, a blood progesterone test, and *Calfcheck Confirm*, a late pregnancy test which detects estrone sulfate.

All three tests are simple enough to be used on the farm by either the farmer or the vet. *Calfcheck* and *Heifercheck* take about six minutes to run; results from *Calfcheck Confirm* can be obtained in under one hour.

**Animal Health & Nutrition
For The Large Animal Veterinarian**

Sandstone Building
Mount Morris, IL 61054

Animal Health and Nutrition For The Large Animal Veterinarian is a publication directed to large animal veterinarians covering subjects such as preventive medicine, nutrition, animal environment, genetics, production management, new technology and regulatory impact.

An-Tech International

P. O. Box 34820
Phoenix, AZ 85067

Livestock I.D. Tags
Livestock Insecticide Products
Bovine Progesterone Test Kits

Description: An-Tech is introducing Bovitest, a new technology bovine progesterone test kit, along with a complete line of veterinarian labeled livestock insecticide products and animal I.D. tags.

AVMA Professional Liability Insurance Trust

P. O. Box 74221
Chicago, IL 60690-8221

Here is the place to have your questions about malpractice or workers' compensation insurance answered by representatives of the AVMA Professional Liability Insurance Trust. Karen Katz, of Mack and Parker, as well as Dr. Jack Dinsmore, the Trust's representative, will be on hand to help you with potential claims or technical questions.

Babson Bros. Co.

1800 Country Farm Drive
Naperville, IL 60540

The display will consist of surge dairy farm equipment. The exhibit will also feature microprocessor controlled components and computerized dairy management systems.

Beecham Laboratories

501 Fifth St.
Bristol, TN 37620

Convention participants are invited to stop by the Beecham Laboratories veterinary exhibit. Beecham is the veterinarian's source for quality biologicals and pharmaceuticals. Representatives will be on hand to introduce new products and offer additional information on currently marketed products.

Bio-Ceutic

2621 North Belt Hwy.
St. Joseph, MO 64502

Bio-Ceutic offers a wide variety of Biologicals, Pharmaceuticals, and Insecticides for both large and small animals.

Our complete Bio-Ceutic line of products is available through our national network of distributors.

Please stop by our booth for your free gift.

Bio Techniques Laboratories, Inc.

15555 N.W. 33rd, Bio Tech Rd.
Redmond, WA 98052

Bio Techniques exhibit is composed of a single grey Backdrop Wall with 2 red towers mounted at each end.

The photos, signs and research data are tastefully displayed on the backdrop wall and the towers, and present the Cobactin® products.

Bowie Manufacturing, Inc.

313 South Hancock
Lake City, IA 51449

See the new 1988 AMERICA unit. It fits 'EM' all including the new '88 Chevrolet Fleetside pickup. Compare the latest style, highest quality, and practical design. Take a look at the Bowie/Polaroid Instant Radiographic System. As always, Bowie sets the standard for quality. Ask about our Convention Specials!!

Bristol Animal Health Care

2404 Pennsylvania Ave.
Evansville, IN 47721-0001

We cordially invite you to visit the Bristol Animal Health Care exhibit and meet our representatives who welcome the opportunity to discuss products and services of interest to you. Featured will be Cefa-Dri, Cefa-Lak, Dry Clox, and Hetacink.

Burns Veterinary Supply

7711 Oakport St.
Oakland, CA 94621

Burns Veterinary Supply is a full-line distributor of veterinary drugs, biologicals & supplies. We have four western branches to serve you: Oakland, CA, Commerce, CA, Vancouver, WA, & Denver, CO. We have 22 field sales reps and 25 telemarketing sales reps to provide full service to your needs.

CEVA Laboratories

7101 College Blvd.
Overland Park, KS 66210

This year CEVA Laboratories will feature their new formula Erythro® -200 (Erythromycin) injectable product, a proven treatment for pasteurella pneumonia. Also exhibited will be CEVA's line of IBR/BVD/P13 combination biologicals; Syncro-Mate-B™ for controlled breeding programs; Cystorelin (GNRH) an effective treatment of cystic ovaries and our complete line of I.V. fluids and sanitation products.

Church & Dwight Co., Inc.

469 N. Harrison St.
Princeton, NJ 08540

The Church & Dwight Co., Inc. manufactures and markets many nutritional products under the Arm & Hammer® name for dairyman. Feed grade sodium bicarbonate is the most widely used rumen buffer. MEGALACT™, rumen bypass fat, is a new, high energy, feed ingredient. We also manufacture herd and veal milk replacers.

Coopers Animal Health, Inc.

P. O. Box 419167
Kansas City, MO 64141

Coopers Animal Health will be exhibiting a large variety of vaccines, pharmaceuticals and insecticides for the large animal practitioner. Be sure to ask about our new calf scours vaccine, Jencine K99 and our one-shot pasteurella vaccine, Shipguard. We'll also be exhibiting Expar Pour-On Insecticide, our permethrin lice treatment for cattle. Please stop by.

Dairy Equipment Co.

P. O. Box 8050
Madison, WI 53708

Dairy Equipment Company will display a 2030 farm computer, Dectrace recorder, air flow meter, and the Flo-Star claw.

Diamond Scientific Co.

2538 W.E. 43rd. St.
Des Moines, IA 50317

Diamond Scientific will exhibit their recently introduced vaccine products. These products are Horizon I (KBVD), Horizon II (KIBR-KBVD), and Horizon IV (BRSV P13-KIBR-KBVD). These Diamond Scientific killed vaccines are a new addition to the current product line. Diamond Scientific will also exhibit their syncytial vaccines, which include BRSV Vac, BRSV VAC 2, BRSV VAC 3, BRSV VAC 4 and BRSV VAC 9, as well as TGE and TGE/NEO-VAC 7 products for the swine industry.

Diversey Wyandotte, Corp.

1532 Boodle Ave.
Wyandotte, MI 48192

Product Line Name: Divo-Tech™, an ethical line of products by Diversey Wyandotte, Inc., of Wyandotte, MI.

Products: Divo-Tech 1% Iodine Teat Dip, .25% Iodine Teat Dip, Chlorhexidine Teat Dip, Sanitizing Pre & Post Milking Teat Dip, Iodine Detergent-Sanitizer and Germicide, Iodine Sanitizing Hand Cleaner, Chap Shield Protective Udder Cream

Animal Nutrition Supplements Business Unit**Eastman Chemical Division****Eastman Kodak Co.**

P. O. Box 1955
Kingsport, TN 37662

Eastman® IsoPlus® Nutritional Supplement is the calcium salts of isobutyric and mixed 5 carbon volatile fatty acids, an energy source for lactating dairy cows. University and commercial trials have shown that cows fed IsoPlus along with their normal ration produced an average of 1000 pounds or more milk per lactation.

Edison Associates, Inc.

P. O. Box 16073
Minneapolis, MN 55416

Elanco Products Company

Lilly Corporate Center
Indianapolis, IN 46285

Our exhibit features the products COMPUDOSE, RUMENSIN, and TYLAN Injection. COMPUDOSE is the implant with the unique longer-lasting payout. RUMENSIN, the beef industry's leading feed additive, is now cleared for dairy replacement heifers. TYLAN Injection is the fast-acting antibiotic for cattle and hogs which goes right to the site of infection.

For-Most, Inc.

Box 322
Hawarden, IA 51023

For-Most can supply you with a full line of heavy duty livestock handling equipment: Headgates, Squeeze Chutes, Tip-Chute, Crowding Tub and Adjustable Alley Ways, Portable Corral and Alley Panels, Hog Catcher, also livestock scales. The foremost in livestock handling equipment since 1962.

Fort Dodge Laboratories

800 5th Street N.W.
Fort Dodge, IA 50501

Please plan to visit the Fort Dodge Laboratories' booth for up-to-date information on Triangle® 8, an 8-way combination that contains PI-3 virus vaccine. Information will also be available on TriVib 5L®, the unique oil adjuvanted vibrio-lepto vaccine for longer lasting protection. We hope to see you there.

Germania Dairy Automation

606 Cooper Rd.
Wausaukee, WI 53597

Full line of automatic milking systems, including automatic Backflush Systems for milking parlor, flushing both with hot water and iodine.

Grand Laboratories, Inc.

RR 3, Box 36
Freeman, SD 57029

Grand Laboratories, Inc. invites you to visit our booth for information on the newest additions to our USDA approved product line. Featured will be Vira Shield-4™, a killed IBR, BVD (cytopathic and non-cytopathic strains), and P13 combination in Xtend III™ adjuvant which gives higher and longer-lasting titers than previously available.

Haver

P. O. Box 390
Shawnee, KS 66201

Haver will display their complete line of Biologicals, Insecticides and Pharmaceuticals for Bovine Practitioners. In addition to featuring the innovative analogues, ESTRUMATE (cloprostenol) and HEIFEX now available for your client's beef, dairy herds and feedlot heifers, we will feature Spotton, Tiguvon Pour On and Hava Span.

Hoechst-Roussel Agri-Vet Co.

Rt. 202-206 North
Somerville, NJ 08876

Hoechst-Roussel Agri-Vet Co. has become in a few years one of the leaders in the Animal Health Industry. This year we are discussing; new tools for breeding management, improved growth performance with anabolics, and strategic deworming programs.

Hoffman-LaRouche, Inc.

340 Kingsland St.
Nutley, NJ 07110

Roche Veterinary Products will feature their multi-specie anti-bacterial product ALBON (sulfadimethoxine) in all dosage forms. Also displayed will be INJACOM injectable vitamins. The Roche team of professionals invites your questions and comments.

IBA, Inc.

P. O. Box 31
Millbury, MA 01527

The IBA Exhibit will feature two of the latest developments in milking equipment.

The IBA 4-Way Milker's primary purpose is to prevent infection from one infected quarter to another non-infected quarter on the same cow.

IBA's S-6000 Silicone Inflatons resist fat, ozone, water and milk product absorption. Their surface will not promote the growth of bacteria like ordinary rubber.

Ideal Instruments, Inc.

607 N. Western Ave.
Chicago, IL 60612

Ideal Instruments will exhibit its products that have been standard to the bovine veterinary practitioner for 53 years. Pistol Grip Syringes, Baling Guns, Bovine Obstetrical Equipment are just a few of Ideal's quality products that will be on display. Of special interest will be Ideal's new line of superior quality surgical instruments. We welcome your visit to our display.

ImmuCell Corp.

966 Riverside St.
Portland, ME 04103

Displays and demonstrations of rapid veterinary diagnostics, including Rapid Progesterone Test Kit (RPT), Rapid Mastitis Test Kit (RMT), and Rapid Johnes Test Kit (RJT).

Intermountain Veterinary Supply

3950 Holly St.
Denver, CO 80207

Distributor of veterinary pharmaceuticals, biologics and equipment to the veterinary profession exclusively.

International Minerals & Chemical Corp.

P. O. Box 207
Terre Haute, IN 47808

The Veterinary Products Division of International Minerals & Chemical Corporation will feature RALGRO® brand of zeranol, an implant for beef cattle. RALGRO implants provide the livestock producer with a means of maintaining a competitive position in the animal production sector of agribusiness. Dr. William N. Chandler and other technical representatives will be present to discuss the product and its uses.

Jorgensen Laboratories, Inc.
2198 W. 15th St.
Loveland, CO RJECR

We will be exhibiting our complete line of OB instruments, including the Hercules zig zag calf puller, embryo transfer catheters and Danish line of rubberized OB apparel. Don't miss our slide tape presentation of the new Grymer/Sterner Toggle suture method for repair of left displaced abomasum.

Kramar Marketing Group
7525 Mitchell Rd., Suite 208
Eden Prairie, MN 55344

Kamar proudly introduces the Accufirm Progesterone Test Kit that measures progesterone in four simple steps and less than four minutes time. Stop by to see and learn about the ImmuCell Rapid Mastitis Test and Rapid Johnes Test. ... A whole new world of rapid diagnostics for the bovine practitioner ... today!

Kane Enterprises, Inc.
P. O. Box 360
Sioux Falls, SD 57101

AG-TEK Veterinary Specialty Products, including the new 1.0 MIL AG-TEK MaxiSleeve® and the new AG-TEK "CONVERTIBLE" POLE SYRINGE (Can be converted to 5CC, 10CC or 20CC).

The Magrath Co.
464 West "B" St.
McCook, NE 69001

The Magrath Shock, Fluidfeeders, Temperature Probe, and 10ML Continuous Flow Syringe and many other products will be on display at our booth, along with a new product: Magrath Oral Hook Adaptor- the new approach for administering pastes and gels orally, gives the "hands off" approach with ease and convenience.

MSD AGVET, Div. of Merck & Co., Inc.
P. O. Box 2000 A/WBD-319Q
Rahway, NJ 07065-0912

MSD AGVET representatives will be available to detail IVOMEC® 1% injection for cattle and swine (internal and external parasite control), EQUALAN® paste for horses (anthelmintic and boticide), TRESADERM® (dermatological solution) for dogs and cats, TBZ® cattle wormer, CURATREM® drench (cattle fluricide) and CORID® (coccidiostat) for cattle.

Munks Livestock Sling Mfg.
1143 W. March Point Rd.
Anacortes, WA 98221

An effective aid to rehabilitate down, injured, or post surgical livestock of all sizes. The slings are adjustable, lightweight, durable, and easy to use. Invented and manufactured by farmers and continually used and improved by veterinarians worldwide. See our complete line of slings, low lifts, hobbles, neck straps, and more.

NASCO West
1542 Princeton Ave.
Modesto, CA 95352

NASCO supplies farm and ranch items to customers throughout the U.S. and over 100 foreign countries from two locations: Ft. Atkinson, Wisconsin and Modesto, California. A sampling of NASCO's line will be available for your inspection, as well as a free copy of our catalog.

Norden Laboratories
601 West Cornhusker Hwy.
Lincoln, NE 68521

Norden Laboratories, Lincoln, Nebraska, features new products for control and treatment of bovine disease. Ask about new "Cattle-Master" vaccines for safe, convenient protection against bovine respiratory and reproductive disease; 'BovEye' for pinkeye prevention; 'ScourGuard' 3(k) for neonatal scours protection; 'BRSV' for vaccination against bovine RSV; 'LifeGuard H.E.' for scours treatment; and 'CalfSpan' for treatment of scours and pneumonia.

Osborn
P. O. Box 459
Fort Dodge, IA 50501

Osborn's fine line of veterinary products will be on display with informative product literature and Osborn representatives on hand to answer your questions. Osborn's line includes a wide range of products specially formulated for professional use by bovine practitioners. Stop by the booth and learn more about Osborn veterinary products.

Pfizer, Inc.
235 E. 42nd St.
New York, NY 10017

Pioneer Hi-Bred Int., Inc.
Microbial Genetics Div.
6800 Pioneer Parkway, P. O. Box 258
Johnston, IA 50131

Pioneer's Probiocin® brand Microbial Cultures are manufactured viable microbial cultures for specific uses in ruminants. Select strains of beneficial micro-organisms are prepared in a unique dehydrated form and are available in bolus, gel, and granular/dispersible forms.

Pitman-Moore, Inc.
P. O. Box 344
Washington Crossing, NJ 08560

Pitman-Moore is pleased to exhibit at the Annual Conference for Bovine Practitioners. We invite you to visit our booth to examine our recent accomplishments in animal health including the introduction of TOTALON* (levamisole) Topical Cattle Anthelmintic. Representatives will be available throughout the meeting to answer any questions.

Porta-Vet Industries, Inc.
110 Wood St.
Hudson, IA 50643

Porta-Vet has designed a new unit specifically for the Dairy Practitioner. Stop by for quotations on updating your present unit. With the large influx of new veterinarians your present unit may never be worth more than it is now. We recondition these units and sell, and deliver and install these units throughout the United States and Canada.

Powder River Enterprises
P. O. Box 758
Provo, UT 84603

1988 will represent 50 years of manufacturing Powder River Livestock Handling Equipment. Our complete line includes confining, feeding and watering equipment for cattle as well as a line of Rodeo and Horse Equipment.

Sold through a network of dealers coast to coast with quality and service as our goals.

Pro Vet of Loves Park
P. O. Box 2286
Loves Park, IL 61131

We are a full line distributor with over 8000 products available. We will feature new equipment, pharmaceuticals, and biologicals.

PRN Pharmaceuticals
5830 McAllister Ave.
Pensicola, FL 32504

PRN will display its complete line of pharmaceuticals and instruments. Ask about our Polydine Solution and I. O. Dine Bolus. Visit our booth and see the L. C. F. Megatherm unit from WIMCO.

PSI
No. 1 Park Hills Plaza
Effingham, IL 62401

PSI is an IBM Advanced Products Value Added Dealer, IBM's only chosen representative for the veterinary profession. PSI's Veterinary Practice Manager was specifically designed for IBM computers and operates in either a single-user or multiuser environment. The program has many significant features and is continually enhanced by PSI's research and development team. Join PSI and see why so many other veterinarians consider themselves "family".

Rhone-Poulenc
500 Northbridge, Suite 620
Atlanta, GA 30350

Deccox brand of Decoquinat prevents coccidiosis, the third most prevalent cattle health problem today. By stopping coccidiosis early cattle go on feed faster, have better feed conversions and improved health. By starting cattle on a Deccox program you can prevent an outbreak in the first critical days in the feedlot.

A. H. Robins Company, Inc.
P. O. Box 26609
Richmond, VA 23261-6609

A. H. Robins Company, Inc. will feature their pasteurized Hemolytica vaccine, PRECON-PH and their pasteurized milticide vaccine, BOVICON-PM.

W. B. Saunders Company
West Washington Square
Philadelphia, PA 19105

W. B. Saunders is proud to present its list of titles in Bovine Medicine. Included are: Howard: CURRENT VETERINARY THERAPY: FOOD ANIMAL PRACTICE (1986), Morrow: CURRENT THERAPY IN THERIOGENOLOGY 2 (1986), Radostits & Blood: HERD HEALTH (1985), and the all new Scott: LARGE ANIMAL DERMATOLOGY. Please stop by and visit.

Schering Animal Health
1011 Morris Avenue
Kenilworth, NJ 07033

The Scour Solutions: GENECOL 99, SCOURLYTE, SCOURX, and now introducing NEW PILIGUARD E.COLI 1 — the one shot e.coli protection from the folks who brought you PILIGUARD PINKEYE 1. Piliation is the difference! Stop in and see why. We will also have information on Schering's free selenium testing service plus our full line of bovine products. Come by!

Solvay Veterinary, Inc.
P. O. Box 7348
Princeton, NJ JREDC

Our representatives will be on hand to discuss such quality products as Cystiben, Crysticillin, Distrycillin, Follutein, Princillin, Re-Covr Vetsulid, Weck and Xenodine.

Synbiotics Corporation
11011 Via Frontera
San Diego, CA 92127

Synbiotics is dedicated to improving your Herd Health Management Programs through fast and efficient diagnostic and therapeutic products. Current products offered through Synbiotics are: EstruCHEK, a milk progesterone test; KoliCHEK, for the detection of E. coli scours; KoliIMMUNE, for the prevention of E.coli scours. Soon to be released are diagnostic tests for Johnes and swine TGEV, and a therapeutic product for swine scours.

Syntex Animal Health, Inc.
4800 Westown Parkway, Suite 200
West Des Moines, IA 50265

Syntex Animal Health, Inc. will be presenting a complete line of cattle implants including Synovex® S, Synovex® H and Synovex® C, the only implant approved for both steer and heifer calves, even future replacement heifers. Syntex will also be presenting the Syntabac™ line of probiotics. Syntabac live microbial culture is the only probiotic product that guarantees you live, viable organisms at the time of administration.

TechAmerica
7410 N.W. Tiffany Springs Pkw.
P. O. Box 901350
Kansas City, MO 64190-1350

Please plan to stop by the Tech America booth for details on the family of Premier® killed virus vaccines including new Premier® IBPL5. Also, representatives will be on hand to answer questions on Revive™ oral electrolyte, SulfaTech™ SR Bolus and Tylosin Injectable as well as the other fine TechAmerica products.

Torpac Capsules
314 West 53rd St.
New York, 10019

Torpac's large size, lock-ring design, EMPTY CELATIN CAPSULES are easier to fill and use. Fill capsules with dry materials in any form, liquids and pastes. You can dose capsules orally, vaginally and into-uterine. Use capsules to dispense bulk-powders, prescriptions, etc. Free samples and applications literature for veterinarians and manufacturers.

The Upjohn Co.
7000 Portage Rd., 9510-190-47
Kalamazoo, MI 49001

Our representatives will discuss the prostaglandin indicated for more uses than any other — Lutalyse (dinoprost tromethamine). They will also answer questions on the use of Lutalyse in Dairy or Beef synchronization using A.I. or bulls, treatment of metritis, and abortion of feedlot or mismanaged cattle.

Valley Sales Co.
P. O. Box 495
Lexington, NE 68850

Veterinary Concepts®, Inc.
303 South McKay Avenue
Spring Valley, WI 54767

Veterinary Concepts, Inc. will be displaying their full line of disposable plastic and specialty products. Many new and unique products will be introduced featuring a common sense approach to practice. We hope you stop by and evaluate our quality products and where they may fit into your practice.

Veterinary Learning Systems
2906 Brunswick Pike
Lawrenceville, NJ 08648

Veterinary Learning Systems publishes *The Compendium on Continuing Education for the Practicing Veterinarian*, the North American edition of *Equine Veterinary Journal*, and *Veterinary Technician* — all respected, refereed journals offering review articles in a practical format. VLS also produces books, symposium proceedings, newsletters, and other special interest publications focusing on the needs of the veterinary community.

Vetrepharm, Inc.
69 Bessemer Rd., Unit 27
London, Ontario
Canada N6E 2V6

Vetrepharm, Inc., is a biotechnology company active in the research and development of vaccines, immunostats and specialty bovine products including hormones.

VIRBAC, Inc.
9825 Widmer Rd.
Lenexa, KS 66215

On display are EPI-LOCK™ — the innovative, semi-occlusive polyurethane wound dressing, SENSIBLE SOLUTIONS — the semi-rigid, shatterproof, rectangular I.V. solution system, and a variety of I.V. sets and equipment. Also featured are SOLUTET™ — R 5L — the concentrated advanced replacement solution, the VIRBAC 10-Liter I.V. Bag, blood administration and blood collection equipment including three sizes (250 ml, 500 ml and 2000 ml) or ACD blood collection bottles.

West Agro, Inc.
11100 North Congress Avenue
Kansas City, MO 64153

Booth (1) PREDIPPING of teats has been shown to significantly increase dairy herd profitability yet, only about 10% of dairymen are currently employing this practice. Because bovine practitioners are the "voice" most listened to by dairymen, they are in a unique position to assist the 90% of dairymen not predipping. This will result in increased profits for the practitioner.

Booth (2) West Agro veterinary products will be featured including Prepodyne Surgical Scrub, Prepodyne Solution for preparing surgical sites and H.P. vehicle an antibiotic carrier. Also featured will be the BEST TEST milk progesterone test. The test utilizes the latex agglutination concept and is fast, accurate and economical.

EDUCATIONAL EXHIBITORS

DHIA-DHI Provo
Box 1427
Provo, UT 84601

DHIA-Dairy Records Processing Center at Raleigh
P. O. Box 7623
Raleigh, NC 27695

DHIA-Pennsylvania DHIA-ARIS Systems
Orchard Road
University Park, PA 16802

National Mastitis Council
1840 Wilson Blvd.
Arlington, VA 22201

"Reproductive efficiency and diagnostic record programs will be displayed by Dairy Records Processing Centers (DRPC's). Hands-on demonstrations include remote-access programs that can be maintained at the clinic or the client's farm. Flexible report generators and graphics options designed for client and practitioner are featured. Coverage includes 31 states."

AABP Officers



President

George E. Washington
D.V.M.
Purcellville, Virginia

Somehow it seems fitting in this bicentennial anniversary of the signing of the Constitution, that our President comes from the rolling farm lands of Northern Virginia. For those of you who know George, he will be the first to say, "People remember me because of my well known name." That may, indeed, be the case, but his list of accomplishments certainly further embellishes his famous name.

Born on a working farm in Lovettsville, Virginia, in 1940, George began milking cows and tending to farm duties before he went to school at the age of six. In these early years, George eagerly participated in several projects of the local 4-H Club. By the time he was seventeen, he won the Virginia State 4-H Sheep Shearing Championship, and placed third nationally. This hard earned talent of shearing sheep enabled him to make an income which he used for tuition at Virginia Tech. Every spring George would leave Tech to travel through the Carolinas, Virginia, and Maryland seeking the sheep that needed his attention.

Upon graduation from Virginia Tech in 1962 with a B.S. degree, he then continued his education at the University of Georgia Veterinary School. In 1966 George received his doctorate of veterinary medicine. After serving two years in the United States Army, he joined a mixed practice in Purcellville, Virginia, in 1968. Today he is the owner and senior member of Loudoun Veterinary Service, Inc., which is a four-person, large and small animal practice. Many seniors in veterinary school come to this practice to gain "on hand" experience for their externships.

Specializing in dairy practice, George has been an active member of the Virginia Veterinary Medical Association since 1967. He was a member of the Board of Directors from 1976 to 1983. He then

served as President of the V.V.M.A. in 1983-84. George continues to participate in all phases of promoting veterinary medicine throughout the state.

In 1979 George was elected District II Director of the AABP. He served on the Extra Label Task Force of the A.V.M.A. in 1983, and he is presently A.A.B.P.'s representative to the A.V.M.A. Food Animal Task Force (favor.) George has attended, and has been the speaker at several meetings in the last four years as the representative of the A.A.B.P. dealing with the Extra Label Drug Issues. In May he spoke at a seminar sponsored by the CVM entitled, "Proper Drug Usage, Dollars and Sense".

In the community, George is a promoter of the local 4-H and Holstein clubs. He is on the Advisory Board of the Animal-Science Department of Northern Virginia Community College, where he lectures and sponsors internships for the veterinary thechician students.

George is a member of the Purcellville Optimist Club where he served as treasurer in 1982-83, and as scholarship chairman in 1984. He is a member of the Planter's Club, and was recording secretary in 1984-86.

In spite of his demanding work schedules, George still finds time to go fishing with his son, Phillip, age sixteen, and to prepare and cook for his annual "Feed Bag," a memorable picnic where barbecue, turtle and mountain oysters are served to his clients as his way of saying, "Thank you."

George and his wife, Patti, have recently moved into a new, passive-solar home in Round Hill, VA. Any spare moments they have at "Lost Field" are certain to be spent supervising the new fencing for the Holsteins or working in their garden.

A Message From the President

It has been both a privilege and a pleasure to serve as President of the American Association of Bovine Practitioners. I feel that this has been the "year of travel" for me since I have flown into numerous cities on AABP business and I have had the opportunity to meet such interesting people along the way. I have traveled to Phoenix, Orlando, Chicago, Cincinnati, Old Town Alexandria, Indianapolis, St. Paul-Minneapolis, Calgary, and even attended a Food and Drug symposium in home territory at the Renaissance Hotel at Dulles Airport.

In spite of some negative feelings expressed by some members that AVMA and AABP have not been addressing the issues, I feel that both organizations have been working long and hard to solve problems that affect us. I have served on the Food Animal Task Force (FAVOR) since its beginning in July 1984; it will continue at least until July 1988. At these meetings many problems that face Food Animal Practitioners have been discussed. The central focus has been on the problems accredited veterinarians have had with APHIS and with the Center for Veterinary Medicine (Bulk Drugs, Extra Label, "Sting Operations," conflict of interest).

Progress is being made. The conflict of interest proposal was rescinded in the May 25th Federal Registry. In notifying the AVMA of the USDA'S withdrawal decision, Bert Hawkins wrote, "While the proposal will not become a regulation, preserving the highest standards of integrity among the corps of federally accredited veterinarians remain one of our top priorities."

At its April 4-5, 1987 meeting, the AVMA Executive Board took action on COBTA recommendations as follows:

1. **Approved** a proposal to encourage establishment of public standards for veterinary drugs comparable to those available for human drug products.

The Executive Board took action on FAVOR recommendations as follows:

2. **No action** was taken at this time on the resolution favoring increased veterinary supervision of animal drug use.

3. **Approved** a recommendation to add three members to the FAVOR task force representing the US Animal Health Association, Livestock Conservation Institute, and the National Milk Producers Federation.

4. **Approved** a proposal to establish funding on a case-by-case basis that would allow prompt assembly of scientific experts who, when issues

of paramount importance arise, could be identified by AVMA staff, assembled to research the issue, and develop AVMA positions subject to approval by the Executive Board.

5. **Approved** a recommendation to support the existing AVMA definition of the veterinarian/client/patient relationship.

6. **Approved** a recommendation that AVMA oppose an Animal Health Institute (AHI) proposal to exclude OTC drug regulation, and regulation of the extra-label use of drugs from the model drug code developed by the Association of (State) Food and Drug Officials.

7. **Approved** a recommendation that the term "certificate" shall mean blank or partially completed certificates. Inspection certificates shall be considered the private property of the veterinarian to whom they have been assigned until they are no longer in possession of that veterinarian or his employees.

8. **Disapproved** a recommendation to submit the Joint Committee report to legal counsel for opinions unless the response from USDA/APHIS indicated a need to do so.

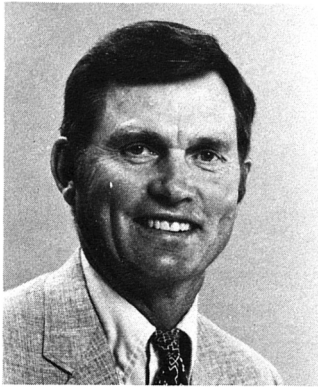
In other action, the Executive Board **approved** the following:

1. A proposal to appoint a four-person committee consisting of Drs. Proctor, Held, Vinson, and Hopkins (chairman) to prepare a comprehensive long-range plan to amend the Food, Drug, and Cosmetic Act to (a) to provide that veterinarians may, with adequate safeguards against residues in food-producing animals, use any drugs they can legally obtain to treat patients in the course of their professional practice, and (b) to define, in the law, veterinary prescription drugs. The committee will present its plan to the Executive Board at its 1987 meeting.

At this time there are two court cases: Bulk Drugs and Extra Label. I feel that the drug controversy will be with us for a long time. We have to prepare ourselves for more supervision of animal drug use. AVMA is coming out with a model drug code, which will require a paper trail, but it should help us to be more responsible in helping to provide the consumer with a higher quality food product.

I am looking forward to the fellowship and superb educational opportunities we will share together in Phoenix.

George E. Washington, D.V.M.
President



President-Elect

Donald B. Hudson
D.V.M.
North Platte, Nebraska

Dr. Donald B. Hudson, North Platte, Nebraska, is the new President-Elect.

Dr. Donald Hudson is Associate Professor and Extension Veterinarian at the University of Nebraska West Central Research and Extension Center at North Platte, Nebraska.

A native of Colorado, Dr. Hudson attended Colorado State University where he received his B.S. degree in Animal Science and his D.V.M. degree in 1954 and 1960, respectively.

Following graduation from Colorado State University, Dr. Hudson was the senior member in a three-man veterinary practice in Benkelman from 1960 until 1976 when he joined the Institute of Agriculture-Natural Resources.

Dr. Hudson is the Nebraska beef cattle and

equine specialist. Working with veterinarians, ranchers and farmers, he is conducting investigations on disease problems found in the field in conjunction with the Veterinary Science Laboratory at the West Central Research and Extension Center.

Dr. Hudson has served as alternate delegate to the American Veterinary Medical Association and is a member of the Journal of the AVMA Publications Committee; a Director of the American Association of Bovine Practitioners; former Chairman, Nebraska Board of Examiners of Veterinary Medicine and Surgery; and Past President of the Society of Theriogenology. He has served on the Board of Directors and is on the C.E. Committee of the Nebraska Veterinary Medical Association; District Director, American Association of Extension Veterinarians; American Association of Equine Practitioners; American Academy of Veterinary Consultants; and a member of the Inter-Industry Committee on Pre-conditioning; he serves on the Animal Science Committee for the Nebraska Stock Growers Association.

Dr. Hudson has authored or co-authored 14 journal and symposium articles, 13 extension publications, 12 industry publications, and he has given approximately 65 scientific presentations to veterinarians.

Dr. Hudson and his wife, LaVonne, reside at North Platte. They have two children in college.



Vice President

Dr. Keith E. Sterner
D.V.M.
Ionia, Michigan

Dr. Keith E. Sterner, Ionia, Michigan, is the new Vice President. He has represented District 4 since 1982 on the AABP Board of Directors. Dr. Sterner

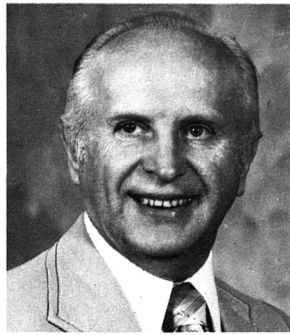
received the B.S. and D.V.M. degrees from Michigan State University in 1969. He spent two years in the U.S. Army Veterinary Corps, including a year in the Republic of Korea and then 6 months world traveling when he met his wife, Lynn an American girl who was teaching school in Germany.

Dr. Sterner returned to Ionia to join his father, Dr. Edward Sterner and his associates in 1972. The practice is over 70% large animal (85% being dairy). Dr. Sterner serves on the Food Animal Board, Compendium of Continuing Education, the Michigan VMA food animal committee and the Michigan State Veterinarian's Advisory Committee. Dr. Sterner serves on the Executive Board, National Mastitis Council and is the Seminar Chairman for this year's AABP Convention.

Dr. Sterner and his wife have three children.

Executive Secretary-Treasurer

Harold E. Amstutz,
D.V.M.
W. Lafayette, Indiana
Past President, World
Association for Buiatrics
and Alternate Delegate
to the AVMA.

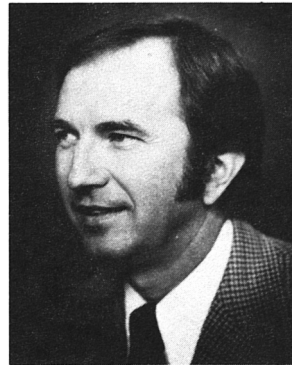


AABP Advertising Manager

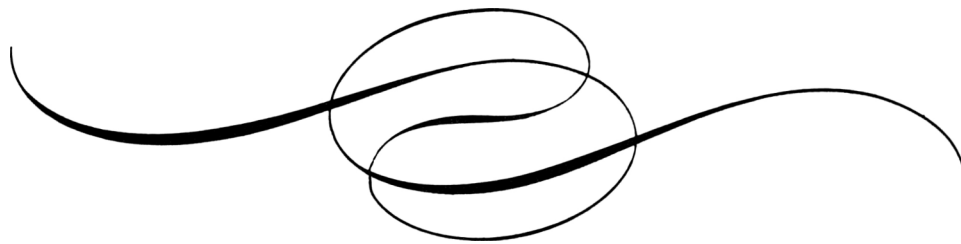
Leland C. Allenstein,
D.V.M.
Whitewater, Wisconsin



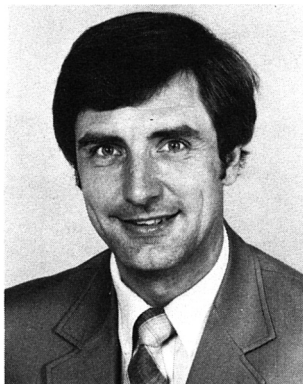
AVMA Delegate



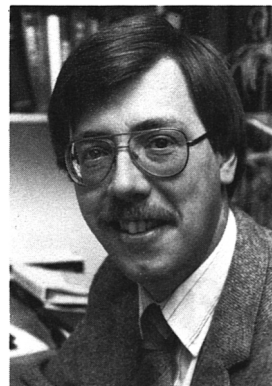
James A. Jarrett,
D.V.M.
Rome, Georgia



Directors Re-Elected



David G. McClary
D.V.M.
Large Animal Clinic
School of
Veterinary Medicine
Auburn University,
Alabama
3rd District



Kenneth E. Leslie
D.V.M.
Ontario Veterinary
College
University of Guelph
Ontario, Canada
12th District

New Directors

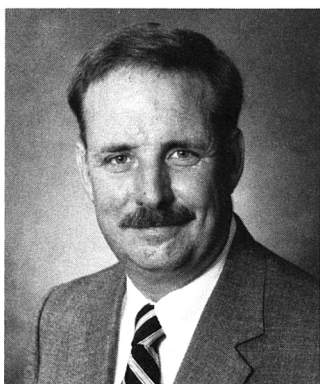


Dr. Duane N. Rice

Dr. Duane N. Rice, Lincoln, Nebraska is the new director for District 9.

Dr. Rice received the B.S. and D.V.M. degrees from Colorado State University in 1954. He was engaged in mixed practice for 25 years in Broken Bow, Nebraska where he was the senior partner in the predominantly bovine practice for 21 years. In 1979, he left practice to accept a staff position as associate professor and Extension Veterinarian, Department of Veterinary Science, University of Nebraska. Dr. Rice is a member of the Nebraska VMA, AVMA, USAHA, Society for Theriogenology and AAEP. He is a Past President of the Nebraska VMA and has served six years on the Nebraska Board of Veterinary Examiners.

Dr. Rice and his wife, Joanne have four children, ages 27 to 33. One daughter is a physician and the other a Speech Pathologist. His eldest son is an electrical engineer while their other son is a veterinarian.



Jerome K. Harness
D.V.M.

Jerome K. Harness, D.V.M., Greencastle, Pennsylvania is the new Director for District 2.

Dr. Harness graduated from Purdue University in 1966 and was a Past Doctoral Fellow at Penn State University in 1972. He is the founder of a four veterinarian, predominantly dairy practice in Greencastle, PA and is the current chairman of the AABP Public Relations committee.

Dr. Harness and his wife, Marcha Elizabeth, have three sons; Michael, Robert and Kenneth.

AABP 1987 PROGRAM COMMITTEE

Program Chairman

Don Hudson

Seminar Coordinator

Keith Sterner

Scientific Session Coordinator

David McClary

Dairy Sessions Coordinator

Walt Guterbock

Beef/Cow-Calf

Mark Spire

Beef Feedlot

Dee Griffin

Research Summaries

Bob Bushnell

Practice Tips

Bob Mortimer

Continuing Education Liaison

Tom Fuhrmann and Larry Hutchinson

Local Arrangements Coordinator

Bob Doster and Mike Kerfoot

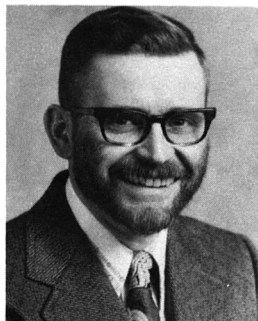
Exhibits Manager

Sam Hutchins III

District X Director

Mike Kerfoot

IN THE NEWS



Dr. Arnold R. Henschl, Harbour Beach, Michigan was elected chairman of the AVMA Executive Board at the July Convention. Dr. Henschl was the 1980 Bovine Practitioner of the Year.



Dr. Sam E. Strahm, Pawhuska, Oklahoma announced his candidacy for the position of President-Elect, AVMA during a breakfast sponsored by the Oklahoma Veterinary Medical Association at the Marriott Hotel, Chicago, on Sunday, July 19. Dr. Strahm has been the Oklahoma representative in the AVMA House of Delegates for many years and he is a Past President of the Oklahoma VMA, currently serving as Secretary-Treasurer.



Dr. John B. Herrick, Paradise Valley, Arizona received the 40th AVMA Award at the July Convention. The award is given annually to an AVMA member in recognition of distinguished contributions to the advancement of veterinary medical organizations. He was the 1985 Bovine Practitioner of the Year.



Dr. Jesse Derrick, Montezuma, Georgia was elected Vice President of the AVMA at the July Convention. He was the 1981 Georgia Veterinarian of the Year.

It is not too early!

PLAN NOW

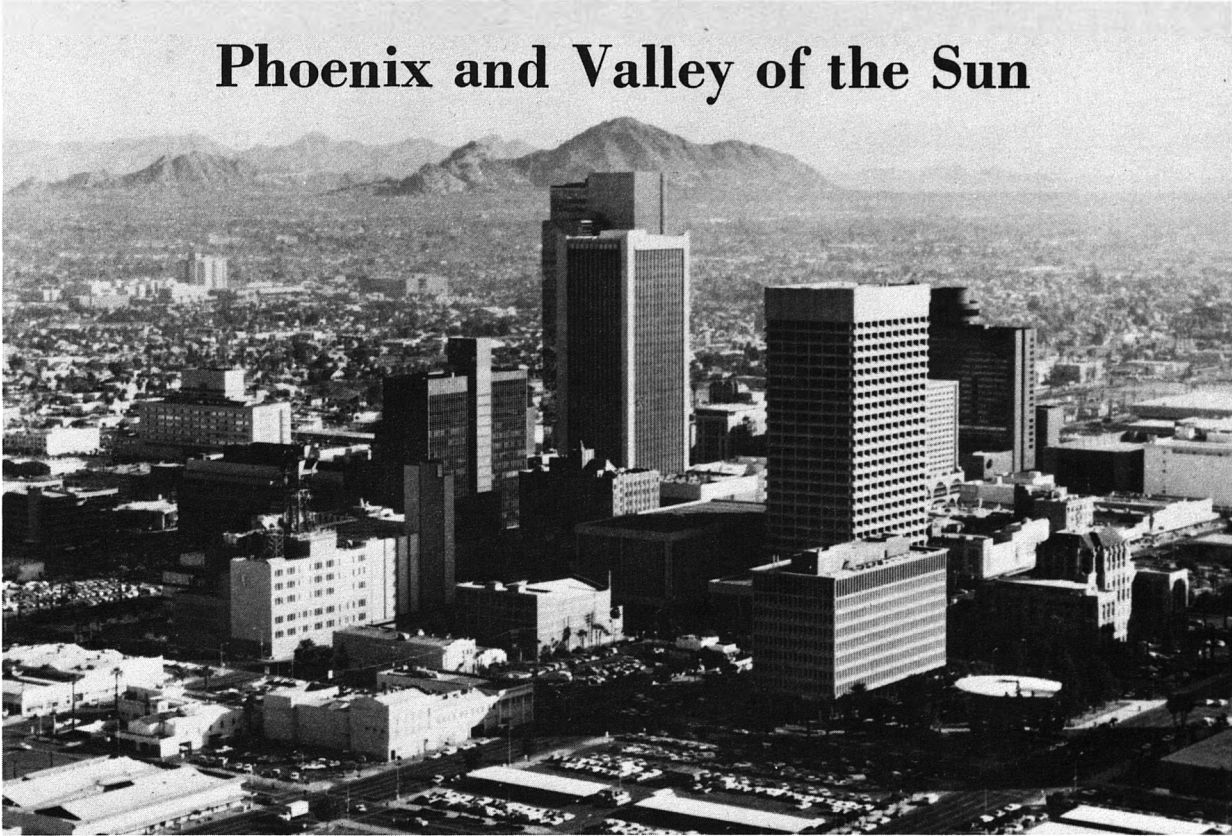
To Attend the

Twenty First Annual Convention

American Association of Bovine Practitioners

Calgary, Alberta, Canada

September 28 - October 2, 1988



Phoenix and Valley of the Sun

How It All Began

Although Phoenix is now a modern metropolitan city, it has not forgotten its past — as is evident from the southwestern architecture, preserved Indian ruins and the emphasis on Indian culture and jewelry interwoven with the sophisticated life-style of Phoenicians.

The earliest inhabitants known to Phoenix were the Hohokam Indians, who settled in Phoenix and Scottsdale until about 1400 A.D. There is no record of the Hohokam after that time, although it is believed they may have been ancestors of the Pima Indian. The name Hohokam means “those who have gone” in Pima.

For almost 25,000 years Indians were the exclusive inhabitants of Arizona. Archeological evidence leads to the Pre-historic existence of 3 major tribal groups — the Anasazi, of the state’s northern plateau highlands, the Mogollon People, of our northeastern and eastern mountain belt, and the Hohokam.

Today there are 23 Indian reservations on the outskirts of Phoenix and extending north and south — more than in any other state, which house 50,000 Indians from 17 different tribes.

In the mid-1500’s, the Spanish Conquistadors invaded Arizona, searching for the fabled “Seven Cities

of Cibola”. Although they found little gold, they left behind a dominant influence of their culture.

They introduced cattle and horse raising, and a variety of new agricultural crops and techniques to the Indians, as well as leaving their imprint in our architecture and culture.

Up until the mid-1850’s, the Indian tribes accepted the few miners, traders and farmers who settled in Arizona. As the number of white men grew, however, the hunters and raiders of the Mountains and plateaus — the Apache, Navajo, Yavapai, Hualapai and Paiute tribes, resented the encroachment of white men on their land, and went to war.

The Military was called in, and eventually the tribes were confined to special government reservations. The ensuing decades were an ordeal for Arizona’s Indians, but they survived them with the same diligence that enabled their ancestors to thrive in Arizona, and they are reclaiming their status as the first citizens of the state.

The present city of Phoenix began as a small settlement on the banks of the Salt River in 1860. One of the city’s first settlers, an English adventurer and scholar, gave Phoenix its name.



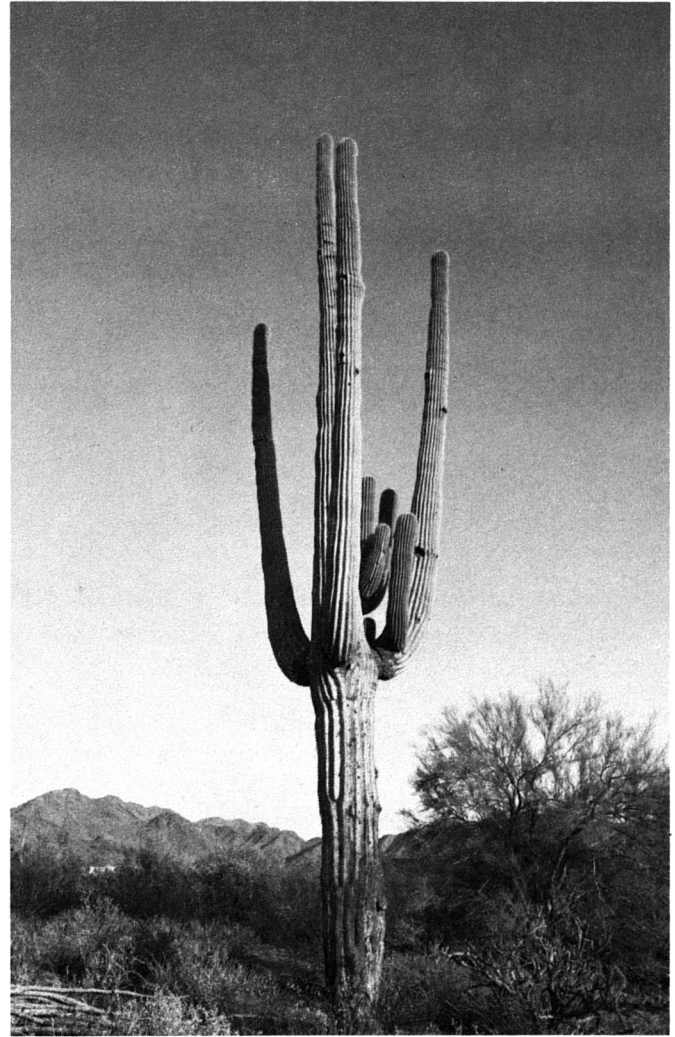
With the building of the first railroad in 1887, Phoenix drew settlers from all over the United States, and in 1889 was declared the capital of the territory of Arizona.

Statehood took place in 1912 and George W. P. Hunt was elected Arizona's first Governor.

Phoenix and the Valley of the Sun has grown rapidly since the turn of the century. In fact, it is the fastest growing city in the United States.

Manufacturing and tourism are the leading industries, and agriculture also accounts as an important economic factor with citrus and cotton as the leading crops grown here.

The future of Phoenix and the Valley of the Sun is a promising one, fulfilling the English scholar's prediction of long ago that a great city would arise from the Hohokam ruins as the Egyptian Phoenix bird arose from its ashes.



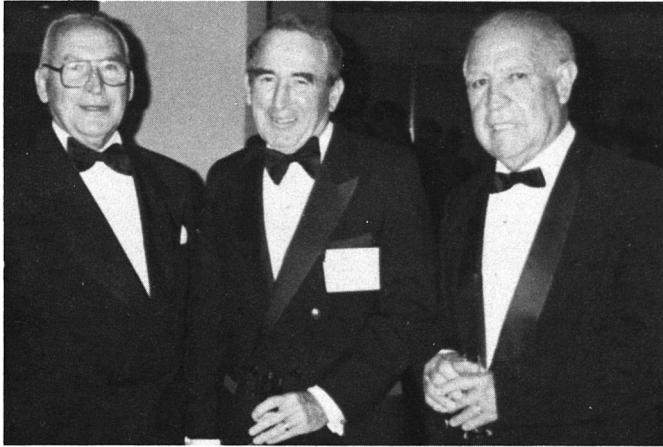
The Phoenix Civic Plaza has many uses, not only to residents of Phoenix, but to people who come from all over the world. The convention center hosts hundreds of business meetings and national conventions each year.

Photos courtesy of Phoenix & Valley of the Sun Convention & Visitors Bureau

XXIII WORLD VETERINARY CONGRESS

Montreal, Quebec, Canada

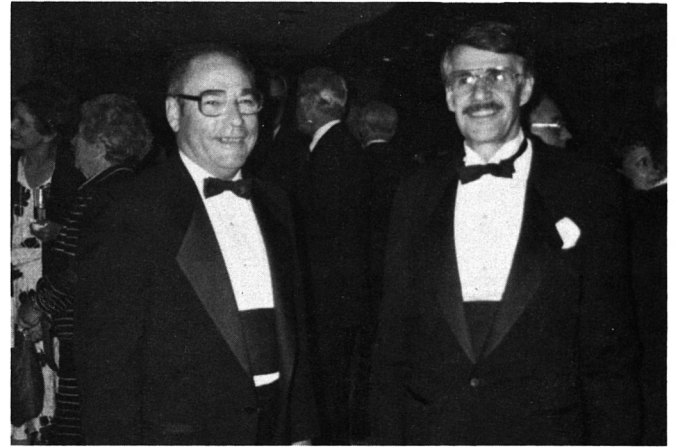
August 16-21, 1987



Dr. Vernon Tharp, Vice President, WVA, Dr. Richard Fink, AVMA President and Dr. Juan Figueroa, WVA President.

Over 5,300 delegates spent five days soaking up a wealth of information in seminars, symposia and keynote addresses at the XXIII World Veterinary Congress which was held in magnificent weather at the elegant Convention Center, Montreal, Quebec, Canada on August 16-21, 1987. According to the final Congress newspaper on Friday, August 21, "the big winner of course has been the veterinary profession world-wide. We are convinced that the public is now more aware of what the profession is all about than was the case before the Congress was launched last weekend."

Dr. Guy Lafreniere, Chairman, Organizing Committee and his staff had worked diligently for four years preparing the great event that attracted 3050 veterinarians, 913 accompanying persons, 100 news

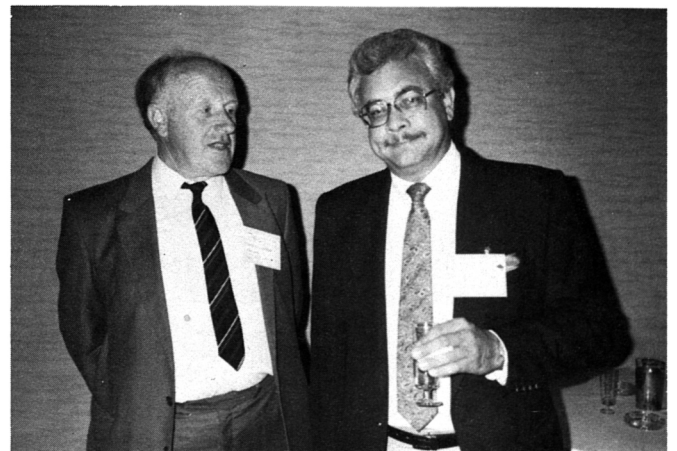
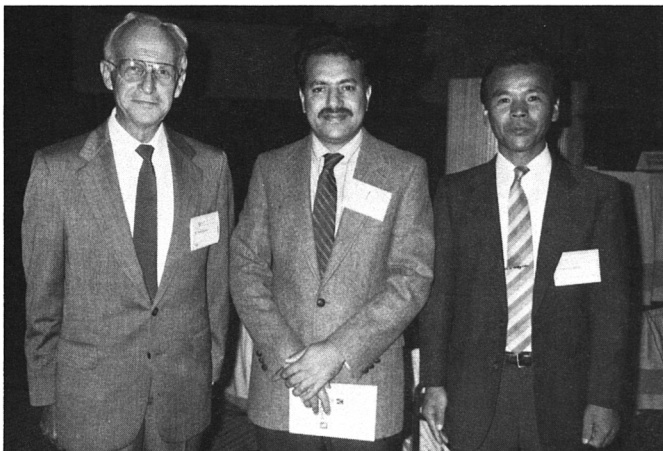


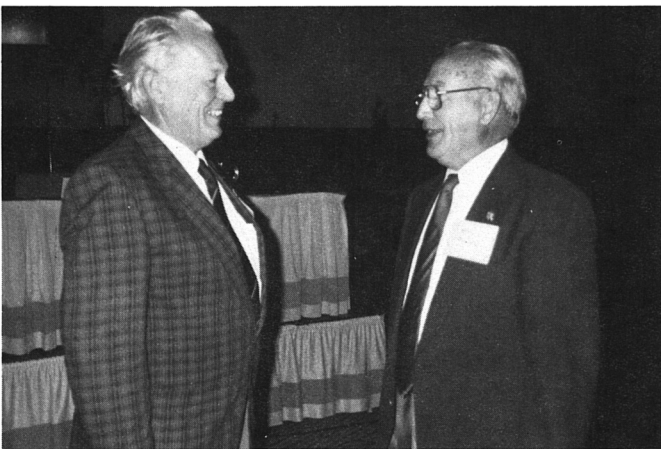
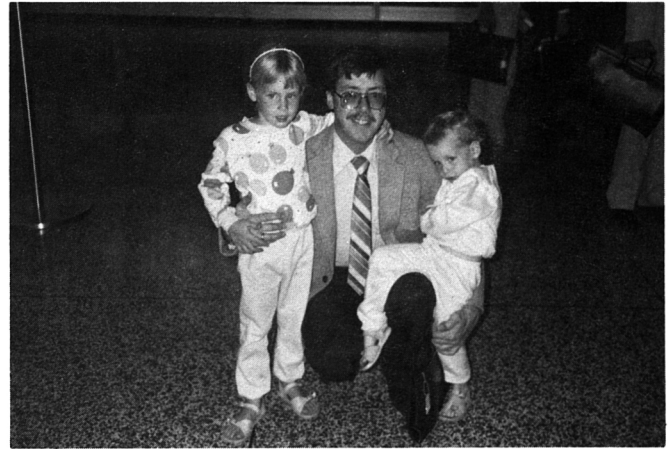
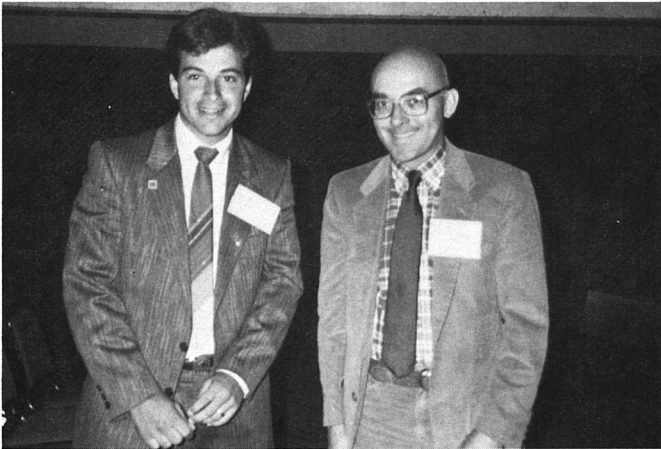
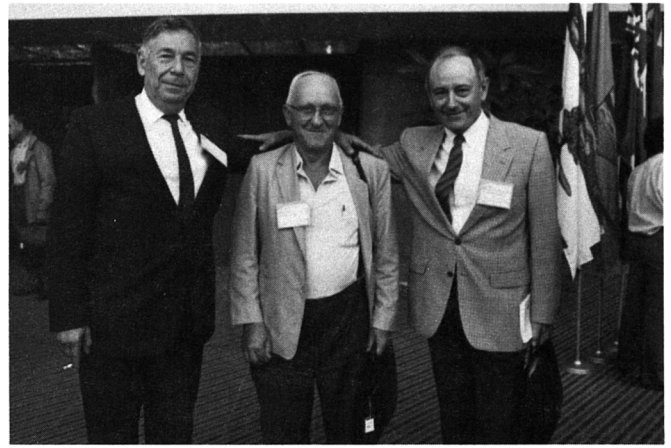
Dr. John McGowan, President, XXIII Congress, left and Dr. Guy Lafreniere, Chairman, Organizing Committee.

reporters and over 1400 staff members in the 225 exhibits which occupied 310 booth spaces. There were over 730 papers, 300 video tapes and 350 posters. Sixty seven countries were represented, with 642 from the United States.

The Keynote address at the Opening Ceremony on Sunday evening, August 16, was delivered by Dr. K. Bogel, Chief, Veterinary Public Health, World Health Organization.

The Buiatrics (cattle diseases) sessions focused on a wide range of topics including diseases of the digestive, respiratory and locomotor systems, reproductive tract, mastitis, newborn calf, and miscellaneous topics. Several AABP members from the United States and Canada presented papers and presided over scientific sessions.





Dr. Juan Figueroa was re-elected president for 4 years. Dr. Vernon Tharp was re-elected vice president representing North America. Dr. Tharp also heads the committee of three to develop a plan for restruc-

turing the World Veterinary Association.

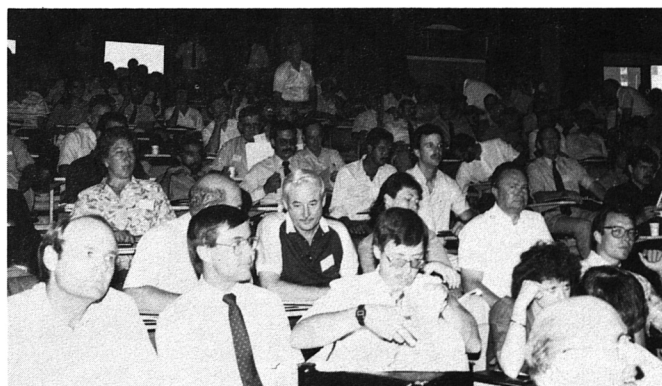
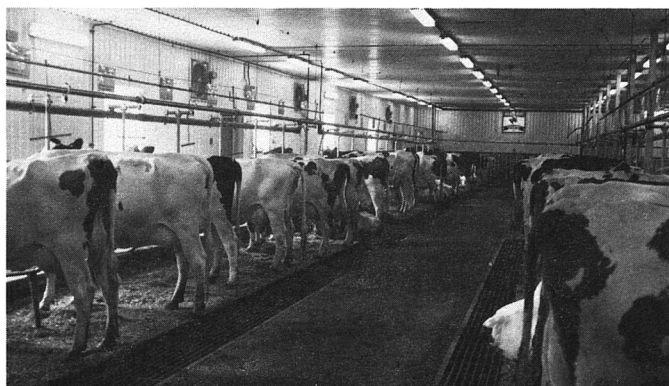
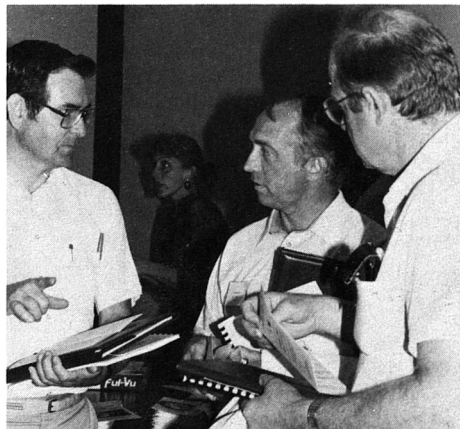
The XXIV World Veterinary Congress will be held in Rio de Janeiro Brazil, South America in 1991.

International Mastitis Symposium

MacDonald College, Quebec, Canada
August 14-15, 1987

Over 250 registrants attended the International Mastitis Symposium which was held at MacDonald College, Quebec, Canada on August 14-15. The Symposium was organized by the Canadian Committee for Mastitis Control and Prevention. There were several participants from overseas countries. The theme for the Friday, August 14 sessions was "milking machines in mastitis", while the following days meeting focused on the "principles and practice of mastitis therapy."

MacDonald College houses the Agriculture and Food Science Facilities of McGill University where a two million dollar dairy facility was recently completed.



(Photos by Dr. Edward Sterner, Ionia, Michigan)

XV World Congress For Buiatrics

Palma de Mallorca, Spain
October 11-14, 1988



PALMA DE MALLORCA

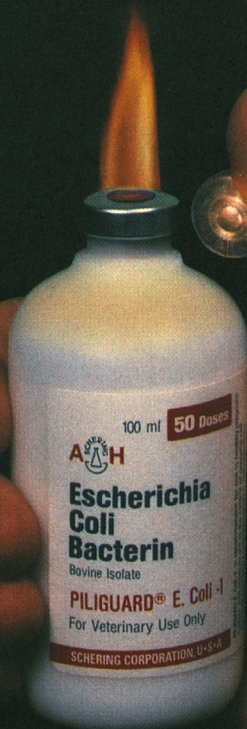
Photo courtesy Spanish Tourism Bureau, Houston Office

The XV World Congress for Buiatrics (cattle diseases) will be held in Palma de Mallorca, Spain on October 11-14, 1988. The official languages will be Spanish, French, German and English with simultaneous translation provided.

The provisional scientific program includes the following main topics: Diseases of the digestive, respiratory, circulatory, central nervous and locomotor systems; nutritional and metabolic diseases; reproduction and genetics; tropical and subtropical diseases; newborn calf diseases and miscellaneous topics.

Further information may be obtained from the Congress Secretary, Dra. M. A. Orden, XV Congress Mundial de Buiatria Apartado de Correos No. 699, 24080 LEON, Spain.

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That's Norden's new 'ScourGuard 3(K)'. Extra potent because a special new adjuvant slows down antigen release — boosts protective antibody levels in the cow's colostrum and milk up to new highs. And keeps them there for a long period of time. And so safe it can be used in cows at any stage of pregnancy.

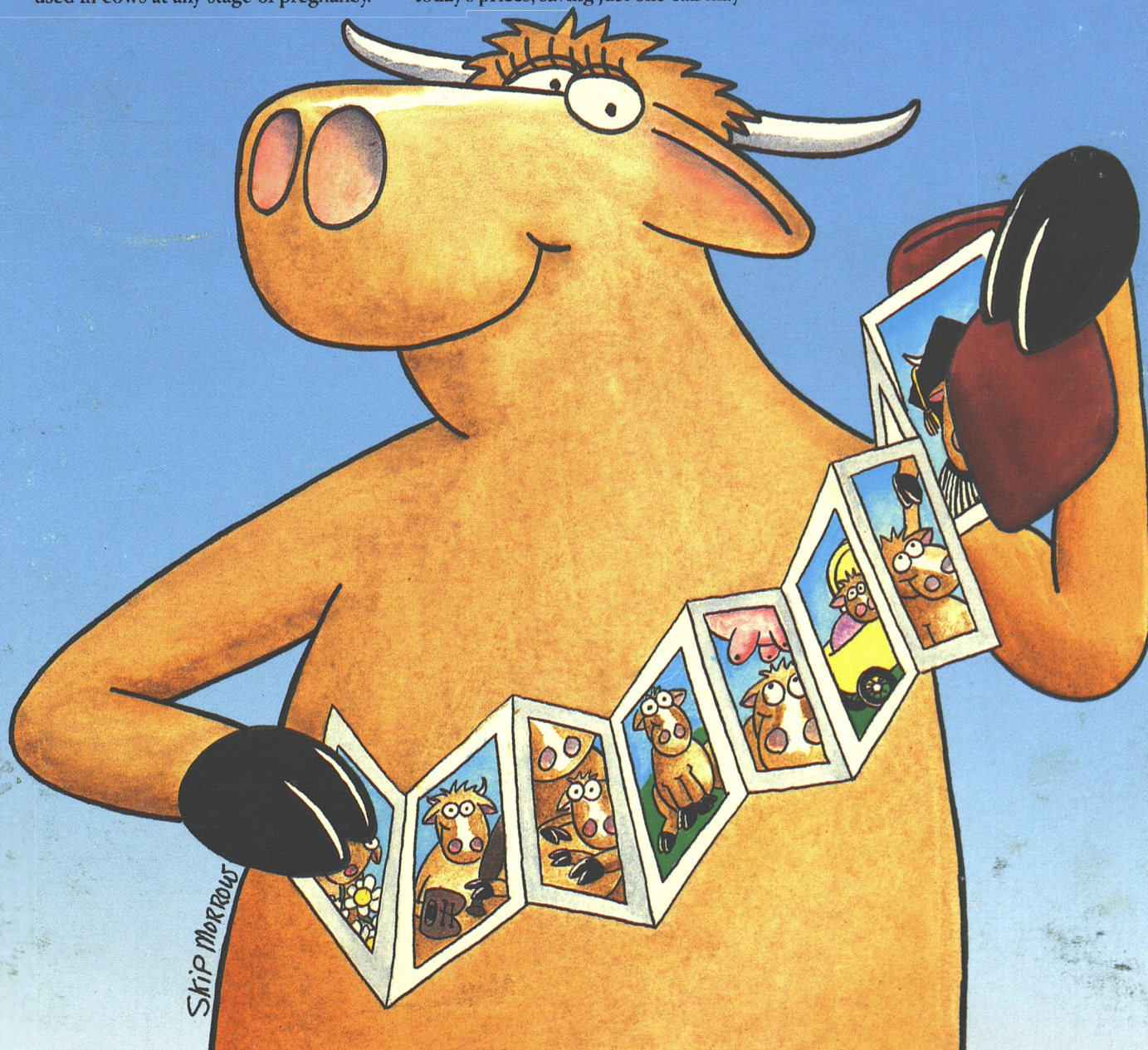
Result — newborns get a huge bellyful of viral and bacterial scours protection from their mothers. Beginning with the first nursing... and continuing for two to four consecutive weeks. That's what it takes to get them through the worst scours threat.

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