

# Table of Contents

## Indice de Materiais

## Tables des Matieres

## Inhalts Verzeichinis

### SECTION A: INTERNAL MEDICINE

(All Section A Sessions will be Translated)

#### 1. Helminthology and Anthelmintics

Soulsby, E.J.L. ....	1
Worms' World – 21st Century Outlook	
Zimmerman, G.L. ....	11
Impact of Parasites on the Immune System of Cattle	
Guichon, P.T.; Jim, G.K.; Jacobsen, J.A.; Ryan, W.G.; Bauck, S.W.; Piché, C.A.; ....	17
Impact of Treatment of Beef Cows With Ivermectin on Herd Productivity	
Ryan, W.; Brown, J.; Corah, L.; Doornbos, D.; Loyacano, A.; Spire, M. ....	23
Evaluation of the Impact of Ivermectin Treatment on the Growth and Reproductive Performance of Replacement Beef Heifers	
McMullin, P.F.; Grimshaw, W.T.R.; Talty, P.J.; McSweeney, C. ....	29
Treatment of Clinical Lungworm Disease in Calves with Topical Ivermectin	

#### 2. Entomology and Protozoology

Wikle, S.K.; Ramachandra, R.N. ....	34
Immunology of the Host-Vector-Pathogen Interface	
Randhawa, S.S.; Randhawa, C.S.; Sawhney, S.M.S. ....	44
Studies on Efficacy of Copper Glycinate in Clinical Babesiosis in Crossbred Cattle	
Higuchi, S.; Hoshi, H.; Kawamura, S.; Yasuda, Y. ....	50
Bovine Babesiosis in Japan: Its Life Cycle	
Kinzer, H. G. ....	56
Horn Fly Control with Topically Applied Ivermectin	
Nietfeld, J.; Yaeger, M.; Dubey, J.P.; Anderson, M.; Libal, M.; Neiger, R. ....	61
Bovine Abortion Due to a <i>Neospora</i> -Like Protozoan	

#### 3. Gastroenterology

Smith, B.P.; House, J. ....	67
Prospects for Salmonella Control in Cattle	
de Ree, J.M.; Stuurman, B.G.E.; Mollema, A.M.; Zantinga, J.W.; van der Valk, P. ....	74
Bovisalm TM and Bovisalm D Vaccines Are Safe and Prevent Salmonellosis in Calves	
Sweeney, R.W.; Whitlock, R.H.; Rosenberger, E.A. ....	80
Vertical and Horizontal Transmission of <i>Mycobacterium paratuberculosis</i>	
Whitlock, R.H.; Rosenberger, A.E.; Siebert, M.; Sweeney, R.; ....	84
Environmental Contamination on Dairy Farms With Cattle Infected With <i>Mycobacterium Paratuberculosis</i>	
Hutchinson, L.J.; Zarkower, A.; Whitlock, R. H.; Sweeney, R.W.; Galligan, D.T.; Spencer, P.A. ....	89
Correlation of Diagnostic Methods and Disease Control Practices With Reduction in Prevalence of <i>M. Paratuberculosis</i> in Dairy Cattle	

Saint-Marc, B.; Argente, G.; Guillemin, F.; Milward, F.; Lacoste, F.; Reynaud, G.; Brun, A.; Vandeputte, J. ....	96
Efficiency of a Live 316 F Strain Vaccine Against Paratuberculosis in Ruminants	
Friis, C. ....	102
Penetration of Danofloxacin Into Tissues of the Respiratory and Gastrointestinal Tract in Calves	
<b>4. Digestive Dysfunctions</b>	
Breukink, H.J.; Kuiper, R. ....	108
Evolving Knowledge of Digestive Dysfunction	
Pehrson, B.G.; Shaver, R.D. ....	116
Displaced Abomasum: Clinical Data and Effects of Peripartal Feeding and Management on Incidence	
Dirksen, G.U. ....	122
Gesundheitsprobleme in Verbindung Mit Der Oralen Rehydratations-Therapie Und Der Zwangsfütterung Beim Jungen Kalb	
Stockhove-Zurwieden, N.; Rehage, J.; Yalcin, E. ....	127
Morphological Investigations of the Forestomach in Cows Suffering From Hoflund Syndrome	
Rehage, J.; Stockhove-Zurwieden, N.; Kaske, M.; Yalzin, E. ....	131
Hoflund's Syndrome — The Consequence of Failure in the Selective Retention of Particles in the Reticulo-Rumen?	
Rademacher, G. ....	137
Diagnose, Therapie Und Prognose Der Darmscheibendrehung Beim Rind	
<b>5. Respiratory Disease</b>	
Lekeux, P.; Genicot, B.; Linden, A.; Desmacht, D.; Close, R. ....	143
New Insight in the Management of Acute Bovine Respiratory Diseases	
Desmacht, D.; Linden, A.; Amory, H.; Lekeux, P. ....	149
La Fatigue Du Diaphragme: Un Risque Vital Au Cours Des Pneumonies?	
Sivula, N.J.; Ames, T.R.; Marsh, W. E. ....	154
Epidemiology of Enzootic Pneumonia in Minnesota Dairy Calves	
Espinasse, J.; Bost, F.; Madelenat, A.; Schelcher, F.; Valarcher, J.-F. ....	159
Efficacité D'Une Nouvelle Céphalosporine (Ceftiofur) Associer Ou Non A Un Antiinflammatoire Steroidien (Succinate De Methyl Prednisolone) Dans Un Modèle Experimental De Pasteurellose Respiratoire Du Veau A Pasteurella Haemolytica Bio-Serogroupe A1	
Barthel, H.; Giles, C.J.; Roelants, B.; Stellingwerf, D.; Thomasson, C.; Tolling, S.T. ....	165
The Evaluation of Danofloxacin in the Therapy of Pneumonia Associated With Pasteurella Species in Young Calves — A Summary	
Vandeputte, J.; Brun, A.; Lacoste, F.; Saint-Marc, B. ....	171
Glycoprotein Vaccine Against IBR: Effect of Vaccination on Latency (Recrudescence After Challenge Exposure)	
<b>6. Endemic Virus Diseases</b>	
Splitter, G.; Leary, T.; Gao, Y. ....	176
How DNA Studies May Advance Knowledge of Pathogenesis and Immunity	
Wolf, G.; Rademacher, G. ....	178
Rapid Detection of Bovine Viral Diarrhea Virus in Viremic Cattle by Flow-Cytometry	

Castrucci, G.; Ferrari, M.; Traldi, V.; Tartaglione, E. ....	184
Effects in Calves of Mixed Infections With Bovine Viral Diarrhea Virus and Several Other Bovine Viruses	
Grotelueschen, D.M.; Duhamel, G.E.; Lu, W.; Hesse, R.A.; Berry, J.G. ....	190
Possible Vaccination Failure in Beef Cow Herds Caused by Infection with Rotavirus Distinct From the Vaccine Virus: Clinical Observations	
Straub, O.C. ....	197
Neue Trends bei der Entwicklung von Vakzinen für Rinder	
<b>7. Respiratory Disease / Immunology</b>	
Mallard, B.A. ....	203
Prospects For Enhancing Genetic Resistance to Disease in Dairy Cattle	
Bowersock, T.L.; Shalaby, W.S.W.; Samuels, M.L.; White, M.R.; Lalone, R.; Levy, M.; Ryker, D.; Park, K. ....	207
Use of Hydrogels to Vaccinate Calves Orally for Pneumonic Pasteurellosis	
Caldow, G.L.; Edwards, S.; Peters, A.R. ....	213
Viral Infections and Respiratory Disease in Dairy-Bred Calves	
Menzel, A.; Herbst, W.; Danner, K. ....	219
The Effectiveness of an Inactivated Combined IBR/IPV Vaccine for Sanitization of a BHV 1 Infected Dairy Herd	
Newsham, R.; Kaufman, T.; Dayalu, K. ....	224
Evaluation of an Experimental Vaccine for Control of Bovine Penumonia Induced by <i>Pasteurella Haemolytica</i>	
Bätza, H.-J. ....	230
Bekämpfung der BHV-1-Infektionen des Rindes aus staatlicher Sicht	
Apley, M.D.; Upson, D. ....	237
Pharmacokinetics of Danofloxacin in Pneumonic Cattle	
Stöber, M.; Stockhofe-Zurwieden, N.; Pohlenz, J. ....	240
Mesotheliosis in Cattle	
Tolling, S.T.; Barthel, H.; Giles, C.J.; Isla, M.; Mencarelli, A.; Thomasson, C. ....	245
The Efficacy of Danofloxacin in the Therapy of Acute Bacterial Pneumonia in Housed Beef Cattle — A Summary	
<b>SECTION B: POPULATION MEDICINE</b>	
(All Section B Sessions will be Translated)	
<b>1. Epidemic Virus Diseases</b>	
Brown, F. ....	251
Current Status and Potential of Foot-and-Mouth Disease Vaccines	
Tabachnick, W.J.; Walton, T.E.; Chase, C.C.L. ....	255
Considerations for Developing Regulatory Policy to Prevent Importation of Arthropod-Borne Animal Diseases: The Lessons Learned From Bluetongue Viruses	
Hamana, K.; Kamimura, S.; Taura, Y. ....	260
Repeated Occurrence of Akabane and CNS Defects in Calves	
Brunner, M.A. ....	266
Successful Eradication of BLV from Dairy and Beef Herds in New York	

**2. Production and Health Management**

McDaniel, B.T. ....	270
Genetic Evaluations of Dairy Bulls and Cows For Production	
Williamson, N.B. ....	274
The Influence of a Health Program on Dairy Heifer Productivity in Minnesota	
Cowman, G.L.; Bennett, B. ....	279
The Veterinarian's Role in Wholesome Beef Production	
Kelton, D.F.; Martin, S.W.; Hansen, D.S. ....	285
Development and Implementation of the Ontario Dairy Monitoring and Analysis Program	
Forslund, B. K. ....	291
What Do We Mean By "Good Food Quality"	

**3. Genetics and Theriogenology**

Womack, J.E.; Luse, W.P. ....	296
The Bovine Genome Study and Its Goals	
Buoen, L.C.; Zhang, T.Q.; Weber, A.F.; Ruth, G.R. ....	300
Non-Freemartin Rate in Holstein Heterosexual Twins	
Scholl, D.T. ....	304
A Simulation Model to Compare Strategies For Reducing the Effect of Cystic Ovarian Disease of Dairy Cattle on Herd Average Open Days	
Watson, C. ....	310
The Use of Milk Progesterone Samples for Complete Herd Oestrous Control	
Esslemont, R.J.; Williams, M.E. ....	315
Assessment of the Use of MOIRA (Management of Insemination Through Routine Analysis)	
Callahan, C.J.; Horstman, L.A. ....	322
The Accuracy of Predicting Twins By Rectal Palpation in Dairy Cows	
Eddy, R.G.; Davies, O.; David, C. ....	326
An Economic Assessment of Twinbirths in British Dairy Herds	
Hoedemaker, M.; Mansfeld, R.; Thiemann, E. ....	332
Comparison of "Metabolic Profiles" Between Dairy Herds With And Without Disturbed Reproductive Performance	

**Section B continued in Volume Two**

Welcome to the / Bienvenu al / Bienvenido al / Willkommen zu der XVII World Buiatrics Congress / XVII Congres Monde de Buiatric / XVII Congreso Mundial de Buiatric / XVII Welt Buiatric Kongress  
and the / et le / y la / und der  
XXV American Association of Bovine Practitioners Conference  
XXV Conference les Americain Association de Bouvier Practiciens  
XXV Conference de la Americana Asociacion de Bovino Practicantes  
XXV Konferenz das Amerikanisch Verbindung von der Rinder Vertreteren  
*Theme / Theme / Tema / Thema*  
"Challenge of the Bovine Industry in the Twenty First Century"  
"Defier Bovier Industrie en le Siecle Vingt et Un"  
"Desafio dela Industria Bovina en al Siglo Viento Uno"  
"Herausforderung von der Rinder Industrie in den Jahrhundert Ein und Zwanzig"

# Index of Authors

## A

- Ames, T.R. .... 154  
 Amory, H. .... 149  
 Anderson, M. .... 61  
 Apley, M.D. .... 237  
 Argente, G. .... 96

## B

- Barthel, H. .... 165  
 Barthel, H. .... 245  
 Bätz, H.-J. .... 230  
 Bauck, S.W. .... 17  
 Bennett, B. .... 279  
 Berry, J.G. .... 190  
 Bost, F. .... 159  
 Bowersock, T.L. .... 207  
 Breukink, H.J. .... 108  
 Brown, F. .... 251  
 Brown, J. .... 23  
 Brun, A. .... 96  
 Brun, A. .... 171  
 Brunner, M.A. .... 266  
 Buoen, L.C. .... 300

## C

- Caldow, G.L. .... 213  
 Callahan, C.J. .... 322  
 Castrucci, G. .... 184  
 Chase, C.C.L. .... 255  
 Close, R. .... 143  
 Corah, L. .... 23  
 Cowman, G.L. .... 279

## D

- Danner, K. .... 219  
 David, C. .... 326  
 Davies, O. .... 326  
 Dayal, K. .... 224  
 deRee, J.M. .... 74  
 Desmecht, D. .... 143  
 Desmecht, D. .... 149  
 Dirksen, G.U. .... 122  
 Doornbos, D. .... 23  
 Dubey, J.P. .... 61  
 Duhamel, G.E. .... 190

## E

- Eddy, R.G. .... 326  
 Edwards, S. .... 213  
 Espinasse, J. .... 159  
 Eslemont, R.J. .... 315

## F

- Ferrari, M. .... 184  
 Forslund, B.K. .... 291  
 Friis, C. .... 102

## G

- Galligan, D.T. .... 89  
 Gao, Y. .... 176  
 Genicot, B. .... 143  
 Giles, C.J. .... 165  
 Giles, C.J. .... 245  
 Grimshaw, W.T.R. .... 29  
 Grotelueschen, D.M. .... 190  
 Guichon, P.T. .... 17  
 Guillemen, F. .... 96

## H

- Hamana, K. .... 260  
 Hansen, D.S. .... 285  
 Herbst, W. .... 219  
 Hesse, R.A. .... 190  
 Higuchi, S. .... 50  
 Hoedemaker, M. .... 332  
 Horstman, L.A. .... 322  
 Hoshi, H. .... 50  
 House, J. .... 67  
 Hutchinson, L.J. .... 89

## I

- Isla, M. .... 245

## J

- Jacobsen, J.A. .... 17  
 Jim, G.K. .... 17

## K

- Kamimura, S. .... 260  
 Kaske, M. .... 131  
 Kaufman, T. .... 224  
 Kawamura, S. .... 50  
 Kelton, D.F. .... 285  
 Kinzer, H.G. .... 56  
 Kuiper, R. .... 108

## L

- Lacoste, F. .... 96  
 Lacoste, F. .... 171  
 Lalone, R. .... 207  
 Leary, T. .... 176  
 Lekeux, P. .... 143  
 Lekeux, P. .... 149  
 Levy, M. .... 207

- Libal, M. .... 61  
 Linden, A. .... 143  
 Linden, A. .... 149  
 Loyacano, A. .... 23  
 Lu, W. .... 190  
 Luse, W.P. .... 296

## M

- Madelenat, A. .... 159  
 Mallard, B.A. .... 203  
 Mansfeld, R. .... 332  
 Marsh, W.E. .... 154  
 Martin, S.W. .... 285  
 McDaniel, B.T. .... 270  
 McMullin, P.F. .... 29  
 McSweeney, C. .... 29  
 Mencarelli, A. .... 245  
 Menzel, A. .... 219  
 Milward, F. .... 96  
 Mollema, A.M. .... 74

## N

- Neiger, R. .... 61  
 Newsham, R. .... 224  
 Niefeld, J. .... 61

## P

- Park, K. .... 207  
 Pehrson, B.G. .... 116  
 Peters, A.R. .... 213  
 Piché, C.A. .... 17  
 Pohlenz, J. .... 240

## R

- Rademacher, G. .... 137  
 Rademacher, G. .... 178  
 Ramachandra, R.N. .... 34  
 Randhawa, C.S. .... 44  
 Randhawa, S.S. .... 44  
 Rehage, J. .... 127  
 Rehage, J. .... 131  
 Reynaud, G. .... 96  
 Roelants, B. .... 165  
 Rosenberger, A.E. .... 84  
 Rosenberger, E.A. .... 80  
 Ruth, G.R. .... 300  
 Ryan, W. .... 23  
 Ryan, W.G. .... 17  
 Ryker, D. .... 207

## S

- Saint-Marc, B. .... 96  
 Saint-Marc, B. .... 171  
 Samuels, M.L. .... 207

Sawhney, S.M.S. ....	44	Talty, P.J. ....	29
Schelcher, F. ....	159	Tartaglione, E. ....	184
Scholl, D.T. ....	304	Taura, Y. ....	260
Shalaby, W.S.W. ....	207	Thiemann, E. ....	332
Shaver, R.D. ....	116	Thomasson, C. ....	165
Siebert, M. ....	84	Thomasson, C. ....	245
Sivula, N.J. ....	154	Tolling, S.T. ....	165
Smith, B.P. ....	67	Tolling, S.T. ....	245
Soulsby, E.J.L. ....	1	Traldi, V. ....	184
Spencer, P.A. ....	89		
Spire, M. ....	23	U	
Splitter, G. ....	176	Upson, D. ....	237
Stellingwerf, D. ....	165		
Stober, M. ....	240	V	
Stockhove-Zurwieden, N. ....	127	Valarcher, J.-F. ....	159
Stockhove-Zurwieden, N. ....	131	Vandeputte, J. ....	96
Stockhove-Zurwieden, N. ....	240	Vandeputte, J. ....	171
Straub, O.C. ....	197	van der Valk, P. ....	74
Stuurman, B.G.E. ....	74		
Sweeney, R. ....	84	W	
Sweeney, R.W. ....	80	Walton, T.E. ....	255
Sweeney, R.W. ....	89	Watson, C. ....	310
		Weber, A.F. ....	300
T			
Tabachnick, W.J. ....	255		
		Y	
		Yaeger, M. ....	61
		Yalcin, E. ....	127
		Yalzin, E. ....	131
		Yasuda, Y. ....	58
		Z	
		Zantinga, J.W. ....	74
		Zarkower, A. ....	85
		Zhang, T.Q. ....	300
		Zimmerman, G.L. ....	11



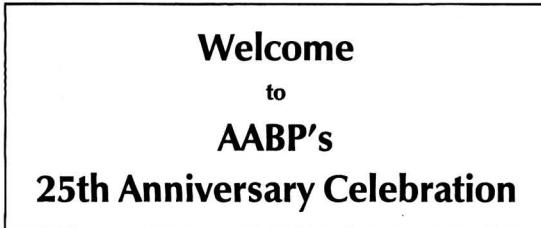
## FUTURE MEETINGS

### American Association of Bovine Practitioners

1993	Albuquerque	September 16-19
1994	Pittsburgh	September 22-25
1995	San Antonio	September 14-17
1996	San Diego	September 12-15

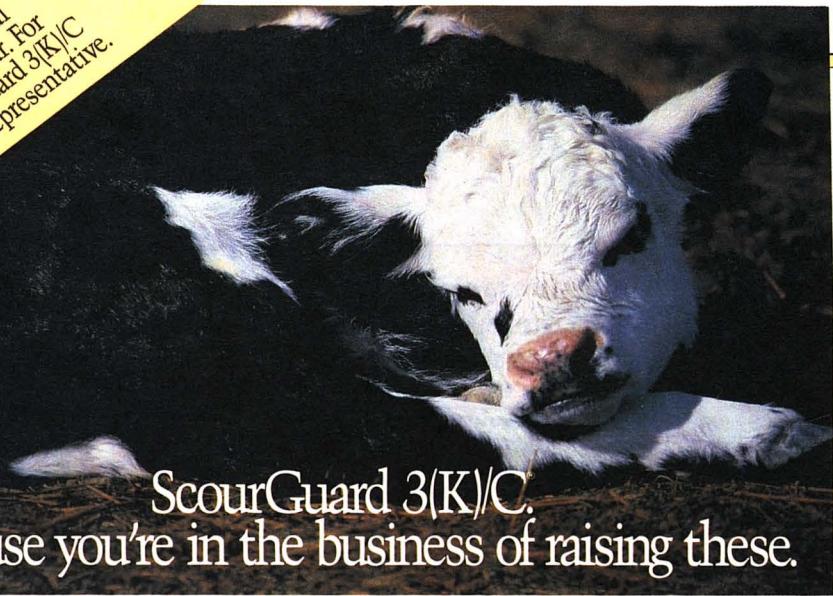
### World Association for Buiatrics

1994	Bologna, Italy
1996	United Kingdom



Your clients will  
see this ad in national  
publications this year. For  
more about ScourGuard 3(K)/C  
talk to your SBAH representative.

© Copyright American Association of Bovine Practitioners; open access distribution



## ScourGuard 3(K)/C. Because you're in the business of raising these.

Every year, scours cost American cattlemen more than \$38 million in treatment, poor performance and calf losses. But you can bring down the cost of scours with ScourGuard 3(K)/C, the most complete and convenient scours vaccine available.

ScourGuard 3(K)/C combines rotavirus, coronavirus, *E. coli* and *Clostridium perfringens* Type C to provide powerful protection against these major causes of scours.

ScourGuard 3(K)/C is convenient, too. Just vaccinate pregnant cows per

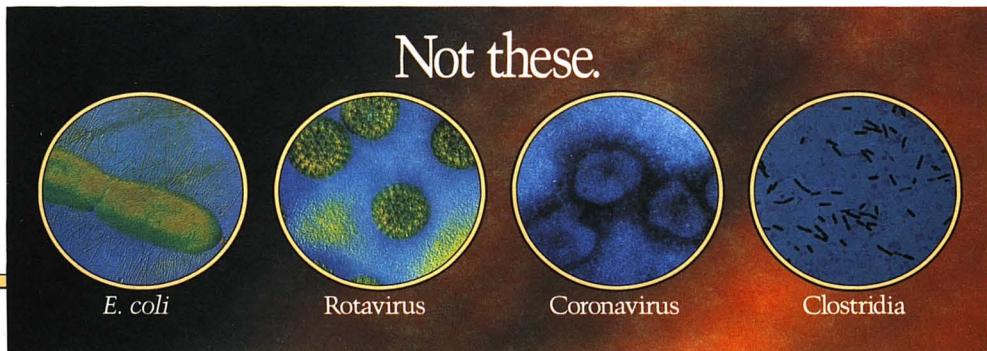
label instructions and they'll pass along scours-fighting antibodies to their calves, naturally, through colostrum.

And typically, you can cover the cost of vaccinating 100 cows with ScourGuard 3(K)/C by preventing the death of just one calf.

So use ScourGuard 3(K)/C. And raise profits, not problems.

## ScourGuard 3(K)/C®

**SB** SmithKline Beecham  
Animal Health



***The manuscripts published in these  
Proceedings were photocopied. The editor is  
not responsible for any errors in the scripts.***

**Buiatrics is the study of cattle diseases and health management.**