9th DISCOVER Conference on Food Animal Agriculture:

Protecting and Managing Animal Genetic Resources for Future Generations: The Next Steps
November 2-5, 2004
The Plains Hotel, Cheyenne, Wyoming
Presented by the American Dairy Science Association

CONFERENCE PROGRAM
All sessions will be in the Ballroom unless otherwise indicated.

Tuesday, November 2
4:00 - 6:00 p.m. Registration
6:00 – 9:00 p.m. Welcoming Reception and Dinner at the Old West Museum, Cheyenne, WY
Opening Speaker: Animal Genetic Resources – The Next Steps. Dennis Funk, ABS Global, Inc., DeForest, WI

Wednesday, November 3
7:00 a.m. Breakfast
8:00-12:00 Session 1: Driving Forces for Conservation & Utilization
Moderator: Harvey Blackburn, USDA-ARS National Center for Genetic Resources Preservation, Ft. Collins, CO
Welcome
Socio-Economic Valuation of Genetic Resources. Doug Gollin, Economic Growth Center, Yale University, New Haven, CT
In-situ Conservation of Private and Public Sector Populations. Bob Taylor, University of New Hampshire, Durham, and Don Bixby, American Livestock Breeds Conservancy, Pittsboro, NC
Question & Answers
BREAK
Moderator: Denny Funk, ABS Global, DeForest, WI
Industry and Global Driving Forces for Conservation and Utilization
-Global Driving Forces. Hein van der Steen, Sygen International, Franklin, KY
-Canadian Animal Genetic Resource Program. S.K. Ho, Agriculture & Agri-Food Canada, Ottawa, Ontario Canada

Utilization of Animal Genetic Resources by the Livestock Industry: Panel
- Jim Gibb, Merial LTD, Louisville, CO
- Paul Genho, King Ranch, Kingsville, TX
- Russ Nugent, Tyson, Springdale, AR
- Larry Tande, Holstein Association USA, Meddord, MN
- Dave Kendall, American Milking Shorthorn Society, Beloit, WI
- Peter Orwick, American Sheep Industry Association, Denver, CO
- David Harry, Genetic Foundations, Napa, CA

Question & Answers
12:00 LUNCH
1:00–5:30 Session 2: Status of Utilizing, Preserving and Collecting Animal Genetic Resources
Moderator: Terry Stewart, Purdue University, West Lafayette
Species Committee Reports
  a. Dairy cattle – Les Hansen, University of Minnesota
  b. Beef cattle – Larry Cundiff, USDA
Sampling of Populations for Gene Discovery Validation & Exploitation. Dorian Garrick, Colorado State University, Fort Collins

Question & Answers

BREAK

Species Committee Meetings

6:00  DINNER ON YOUR OWN

7:15 - 9:00  Ice Cream Social & Historical Perspectives. Nelson Museum of the West, Cheyenne, WY

Moderator: Les Hansen, University of Minnesota, St. Paul
Dairy Cattle: Paul Miller, University of Wisconsin, Madison
Beef Cattle: Keith Gregory, USDA Meat Animal Research Center, Clay City, NE
Poultry: Elwood Briles, Northern Illinois University, Dekalb
Small Ruminants: Eric Bradford, University of California, Davis

Thursday, November 4

7:00 a.m. BREAKFAST

8:00 – 5:30  Session 3: Available and Needed Technology & Tour of National Center for Genetic Resource Preservation, Ft. Collins

Moderator: Terry Tiersch, Louisiana State University, Baton Rouge
The Use of Embryonic Stem Cells for Genetic Conservation. Robert Etches, Origen Therapeutics, Burlingame, CA
Cryobiology – the Reality. Bill Rall, NIH, Bethesda, MD
Question & Answer

9:15  Travel to National Center for Genetic Resource Preservation

BREAK ON THE BUS

10:20  Tour NAGP & Discuss Plant Collection Utilization

11:55  Travel to Cheyenne

LUNCH ON THE BUS

1:15-5:30  Moderator: Abel Ponce de Leon, University of Minnesota, St. Paul
Animal Genetic Resources in the Post Genome Sequencing World. Noelle Cockett, Utah State University, Logan
Utilization of genetic resources in the post genome sequencing world. Lawrence Schook, University of Illinois, Urbana
Development of information systems to link genetic, phenotypic and environmental information.
Scott Farenkrug, University of Minnesota, St. Paul
Question & Answer

2:45  BREAK

Moderator: Larry Miller, USDA-CSREES, Washington, DC
Cross Species Issue Workgroups
- Cryobiology
- Genetics
- Information Systems
- In-situ conservation
- Biosecurity

6:00  DINNER ON YOUR OWN

7:30  Species Committee Meetings continued

International Linkages
- Animal Genetic Resources in Europe. Spike Heimstra, Centre for Genetic Resources, Lelystad, The Netherlands
- Development of North American Collaboration. S.K. Ho, Agriculture & Agri-Food Canada, Ottawa, Ontario, Canada and Harvey Blackburn, USDA-ARS National Center for Genetic Resources Preservation, Fort Collins, CO

INFORMAL RECEPTION
Friday, November 5  
7:00 a.m. BREAKFAST  
8:00–12:00 Session 4: Future Actions  
Moderator: Ronnie Green, USDA-ARS Food Animal Production, Beltsville, MD  
Welcome/Opening  
Future Species Committee Priorities/Recommendations  
Cross Species Workgroups Priorities/Recommendations  
10:10 BREAK  
Discussion of Species and Workgroups Findings  
Outreach to Industry. Jim Gibb, Merial, LTD, Louisville, CO  
The Next Steps  
12:00 LUNCH  
1:00 p.m. Adjourn