2005 ADSA-ASAS-CSAS JOINT ANNUAL MEETING
TENTATIVE SYMPOSIA LISTING*

ADSA PRODUCTION DIVISION
Forage Analysis – Concept to Application
- Dairy Nutritionist Survey on Forage Carbohydrate Analysis: Implications for Methodology Application
  Larry Chase, Cornell University
- Starches and Sugars – Conceptual and Analytical Challenges
  Mary Beth Hall, USDA/ARS, Madison, WI
- Applying starch and sugar analyses in dairy nutrition
  TBA
- NDF digestibility – Conceptual and Analytical Challenges
  Mike Allen, Michigan State University
- Applying NDF digestibility values in dairy nutrition
  Bill Nelson, Nelson Farm Consultants, Lakeville, MN
- Commercial Laboratory Panel - Challenges in Measuring Feed Carbohydrates
  Paul Sirois, Ithaca, NY, Dave Tasum, Arcadia, WI and Ralph Ward, Hagerstown, MD

ALPHARMA BEEF
Challenging the limits of the rumen
- The limits of, potential for, sites of, and acclimation to starch digestion in growing cattle
  Gerald Huntington, North Carolina State University
- Characterization of the dynamics of rumen conditions during diet step-up to high grain content diets (chemical, physical, microbial)
  Mike Brown, West Texas A&M University, Canyon, TX
- Overview of the various methods used commercially to adapt cattle to finishing diets (includes advantages/disadvantages)
  Todd Milton, Midwest PMS, Grand Island, NE
- An upper limit for caloric density of finishing diets (re-evaluation of relationships between E density and DMI, F/G, ADG, cattle attrition…)
  Clinton Krehbiel, Oklahoma State University

ANIMAL BEHAVIOR
Attitudes toward animal welfare and human-animal interactions
- Cultural issues that influence attitudes toward farm animal welfare
  David Fraser, University of British Columbia
- Of pigs and pets: Attitudes toward farm and companion animals
  James Serpell, University of Pennsylvania
- Human and animal interaction and welfare issues at the farm level
  Paul Hemsworth, Animal Welfare Centre, Werribee, Australia
- Panel discussion involving recent research in attitudes toward animal welfare

ANIMAL HEALTH

Acidosis in Dairy Cattle

- Ruminal Acidosis – Within and Beyond the Rumen
  Mary Beth Hall, USDA/ARS, Madison WI
- Regulation of Ruminal pH: Animal and Dietary Factors
  Mike Allen, Michigan State University
- Applied Aspects of Ruminal Acidosis Induction and Prevention
  Gary Oetzel, University of Wisconsin

BEEF SPECIES

Vertical Coordination in the Beef Industry: Implications for Management of Animals, Information and the Enterprise

- Current status of the national animal ID system
  Valerie Ragan, USDA, APHIS, Riverdale, MD
- Implications of beef system vertical coordination on animal identification and data handling
  Dale Blasi, Kansas State University
- Implications of beef system vertical coordination on enterprise management
  Bill Mies, eMerge Interactive, Inc.
- Implications of beef system vertical coordination on animal management
  Dan Faulkner, University of Illinois
- Implications of beef system vertical coordination: An international perspective
  Juan Barrio, President, Feedlot Owners Association of Mexico

BREEDING AND GENETICS

Opening Session - Invited Talk

- Educating producers on genomics and markers
  Wade Shafer, American Simmental Association
- Genetics of scrapie resistance
  Ron Lewis, Virginia Tech
- Dairy progeny testing programs for lowly heritable traits
  Ron Pearson, Virginia Tech

COMPANION ANIMALS

New Advances in Pet Health, Nutrition and Reproductive Management

- Research Advances in Immunology
  Boon P. Chew, Washington State University
- Critical Issues in Aging and Cancer
  David J. Waters, Purdue University
- Improving Puppy Trainability Through Nutrition
  Russ Kelley, The Iams Company
- Reproductive Management of Companion Animals
  Robert Van Hutchison, International Canine Semen Bank-Ohio, North Ridgeville, OH

CSAS

Udder health management: A Canadian perspective

- Research networks: The Canadian mastitis research experience
  Daniel Scholl, Universite de Montreal
- Epidemiology of mastitis: Changes in distribution of pathogens, bulk milk somatic cell count and preventative practices in the last decade
  Herman Barkema, University of Prince Edward Island
- Mastitis vaccines: Past, present and future
  Grant Tomita, Universite de Montreal
- Management strategies for maintaining udder health
  David Kelton, University of Guelph
- Mastitis: Limiting damages
  Pierre Lacasse, McGill University

CSAS

Vitamin nutrition of livestock animals

- Vitamin nutrition of livestock animals: Overview from vitamin discovery to today
  L. R. McDowell, University of Florida
- The vitamin enrichment of meat: The nutrition and metabolism on the animal side and the implication for the consumer
  Jim House, University of Manitoba
- Fat-soluble vitamins in reproducing animals: Physiological and nutritional basis
  Florian Schweigert, Universitat Potsdam, Germany
- Choline metabolism for high-producing dairy cows: Metabolic and nutritional basis
  Antonella Baldi, University of Milan, Italy
- Impact of B-vitamin supply on major metabolic pathways of lactating dairy cows
  Christiane Girard, Agriculture et Agroalimentaire Canada, Lennoxville, Canada
- New concepts on B-vitamin nutrition in swine
  J. Jacques Matte, Agriculture et Agroalimentaire Canada, Lennoxville, Canada

DAIRY FOODS

Extending Shelf Life of Fluid Milk

- Influence of raw milk quality on fluid milk shelf life
  Dave Barbano, Cornell University
- Current status of commercial fluid milk quality
  Kathryn Boor, Cornell University
- Extending shelf life using a novel HTST system
  Mary Anne Drake, North Carolina State University
- Application of microwave processing to extend shelf life of fluid milk
  Josip Simunovic, North Carolina State University
- Use of microfiltration to improve fluid milk quality
  Dave Barbano, Cornell University
- An industry perspective on fluid milk quality
  Heinrich Iverson, TetraPak, Toronto, Canada

DAIRY FOODS

Forum on Cheese Ripening

- Cheese ripening - A historical perspective
  Jim Harper, The Ohio State University
- Milk and the cheese maker
  Mark Johnson, University of Wisconsin
- Microbiology and biochemistry
  Jeff Broadbent, Utah State University
- Chemistry and physical properties
  John Lucey, University of Wisconsin
- Flavor
  Mary Anne Drake, North Carolina State University

EXTENSION

Cow Comfort on Commercial Dairy Operations

- Maximizing cow comfort on dry lot dairies
  Dennis Armstrong, University of Arizona
- Maximizing cow comfort in free-stall facilities
  Dan Weary, University of British Columbia
- Factors influencing time budgets of dairy cattle
  Rick Grant, *W.H. Miner Agricultural Research Institute, Chazy, NY*
- Practical methods for reducing heat stress on dairy operations
  John Smith, Kansas State University
- Animal welfare audits on dairy operations
  Jim Reynolds, University of California, Davis

EXTENSION

Current Issues in Dairy Management

- Manipulating the transition udder: Where dairy management meets mammary gland biology
  Thomas McFadden, University of Vermont
- Photoperiodic effects on the transition dairy cow
  Geoff Dahl, University of Illinois
- Impact of increased milking frequency during early lactation
  Matt VanBaale, University of Arizona
- Recent research on the effects of modified dry periods on milk yield and composition, mammary development, and the periparturient transition period
  Erin Annen, University of Arizona

FASS

Toxic Levels of Minerals in Animal Feeds and Water

- Sources and bioavailabilities of toxic levels of minerals
  Jerry Speers, North Carolina State University and Jesse Goff, NADC, USDA/ARS Ames, IA
- Toxic levels of minerals in the diets of animals
  Jesse Goff, NADC, USDA/ARS Ames, IA and Jerry Speers, North Carolina State University
- Transfer of minerals from feeds to foods: Concerns for human health
  Janet Greger, University of Connecticut
- New developments in selenium toxicity
  Xingen Lei, Cornell University
- The toxicity of minerals that may be advocated for animal health and production through reasons other than nutritional need
  Forrest Nielsen, USDA/ARS/Human Nutrition Research Center, Grandforks, ND
- New developments in heavy metal toxicity
  Kirk Klasing, University of California, Davis

FOOD SAFETY

The Future of Food Safety: An Issue of National Importance

- Foodborne illness and antibiotic resistance: Types, sources, and extent of the problem
  Michael Doyle, University of Georgia
- Ethical issues surrounding food-borne illness: Who's responsible?
  Bernie Rollin, Colorado State University
- Pathogen control in the field. What can we do to reduce pathogens entering the abattoir
  Todd Callaway, USDA/ARS, Food And Feed Safety Research Unit, College Station, TX
- Pathogen control during processing. What can we do to reduce pathogens in the processing plant
  John Sofos, Colorado State University
- Economics of pathogen control. Who is going to foot the bill?
  Randy Huffman, American Meat Institute Foundation
- Food safety as a critical national issue
  Elsa Murano, Dean of College of Agriculture, Texas A&M University, Former Undersecretary for Food Safety, USDA

FORAGE AND PASTURES

Emerging Techniques for Predicting Forage Quality

- The need for new approaches in predicting forage quality - challenging the conventional wisdom
  John Moore, Prof Emeritus, University of Florida
- Impact of cell wall lignification on forage digestibility
  Hans Jung, USDA-ARS, St. Paul, MN
- Application of rates of fermentation to prediction of forage intake
  Michael Blummel, ILRI, Patancheru, Andhra Pradesh, India and Elaine Grings, USDA/ARS Miles City, MT
- New applications of near-infrared reflectance spectroscopy for forage quality assessment
  Sam Coleman, USDA/ARS, Brooksville, FL
- The good, the bad and the ugly: Challenges for assessing forage intake of grazing animals
  Eric Vanzant, University of Kentucky

FUNCTIONAL GENOMICS

Using Functional Genomics for Animal Improvement

- What is functional genomics
  Juliana Perez Laspiu, Michigan State University
- Implications of functional genomics for animal breeding programs
  Jack Dekkers, Iowa State University
- Use of Functional Genomics in Genetic Selection Programs for Environmental Stress Tolerance in Dairy Cattle
  Robert Collier, University of Arizona
- Functional genomics of reproductive tissues: Creating new knowledge that can be used to solve infertility in farm animals
  Matt Lucy, University of Missouri
- Immunogenomics and the Transition Dairy Cow: New Insights and Future Possibilities for Improving Animal Health
  Jeanne Burton, Michigan State University
- What Functional Genomics Has Elucidated About the Pathogenesis of Johnes Disease
  Paul Coussens, Michigan State University

GOAT SPECIES

Workshops

- Classroom teaching materials and approaches relating to goats
  Submitted abstracts followed by open discussion
- Extension education materials and approaches relating to goats
  Submitted abstracts followed by open discussion

GROWTH AND DEVELOPMENT

Postnatal Development as a Harbinger of Future Performance

- Effects of modified calf growth on mammary development, endocrine physiology, and performance
  Mogens Vestergaard, Animal Science Institute, Foulum, Denmark
- Hormone and growth factor regulation of tissue remodeling in the mammary gland
  David Flint, Hannah Institute, Ayr, Scotland
- Tissue proteolytic enzymes -- modifiers of muscle and adipose tissue
  Gary Hausman, USDA/ARS, Athens, GA

HORSE SPECIES

Varsity equestrian teams

- Benefits to Animal Science Programs from a Varsity Equestrian Team
  Gary Potter, Texas A&M University
- Womens' Equestrian-Athletic Department Perspective
  Wallace Groff, Texas A&M University
- Development of Varsity Equestrian Teams
  Greg Williams, Auburn University

LACTATION BIOLOGY

Lactation Persistency

- Peak and persistency: the mathematics of the lactation curve
  Kumar Vetharaniam, AgResearch, New Zealand
- Endocrine signals generated in response to nutrition, pregnancy, heat stress, etc., how they interact to affect mammary function/persistency
  Tom McFadden, University of Vermont
- How external stimuli affect lactation persistency on the enzyme/pathway level
  Avi Shamay, Institute of Animal Science, The Volcani Center, Israel

MEAT SCIENCE/MUSCLE BIOLOGY

Novel Technologies in Muscle Biology/Fresh Meat Research

- Adipocytes, myofibers and cytokine biology: New horizons in the regulation of growth, efficiency and body composition
  Michael Spurlock, Purdue University
- Gene expression profiling: Insights into skeletal muscle growth and development
  James Reecy, Iowa State University
- Use of transgenic mouse models to understand proteolytic degradation systems in muscle
  Melissa Spencer, University of California - Los Angeles
- Applications of proteomics in meat research
  Rene Lametsch, The Royal Veterinary and Agricultural University, Denmark

MILK PROTEIN AND ENZYMES

Milk Protein Interactions

- Casein micelles and whey proteins: physical interactions and functional properties
  Skelte Anema, Fonterra Research, New Zealand
- Process-induced intermolecular bonds in milk protein gels and their impact on rheological properties
  Jorg Hinrichs, University of Hohenheim, Germany
- The 500 Myr story of phosphoprotein evolution that made milk possible
  Carl Holt, Hannah Research Institute, Scotland
- HAMLET, an alpha-lactalbumin folding variant that induces tumor cell apoptosis
  Catharina Svanborg, University of Lund, Sweden

NONRUMINANT NUTRITION

Stable Isotope Tracer Techniques for Nonruminant Nutrition Research and Their Practical Applications

- Mass isotopomer distribution analysis (MIDA) for studying intermediate nutrient metabolism
  Brian Bequette, University of Maryland, College Park
- Measuring first-pass amino acid metabolism in the visceral organs by using stable isotope tracers
  Barbara Stoll, USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine
- Mineral bioavailability and metabolism determined by using stable isotope tracers
  Judith Turnlund, USDA/ARS Western Human Nutrition Research Center, University of California - Davis
- Measuring nitrogen-containing polymer synthesis rates by using stable isotope tracers
  Ming Fan, University of Guelph, Guelph, Canada
- Factors affecting in vivo fat synthesis rates measured by stable isotope tracers
  Elizabeth J. Murphy, University of California - San Francisco

PHYSIOLOGY AND ENDOCRINOLOGY

Effects of maternal nutrient supply on embryonic and fetal development and postnatal performance

- Effects of maternal metabolic state and intra- uterine crowding on embryonic survival and fetal development in swine
  George Foxcroft, University of Alberta, Edmonton, Alberta, Canada
- Effect of maternal nutrient restriction in sheep on the development of fetal skeletal muscle
  Steve Ford, Department of Animal Science, University of Wyoming
- Timing of nutrient restriction and programming of fetal adipose tissue development in sheep
  Michael Symonds, Academic Division of Child Health, School of Human Development, University Hospital, Nottingham, UK
- Nutritionally mediated placental growth restriction in the growing adolescent: consequences for the ovine fetus
  Jacqueline Wallace, Rowett Research Institute, Bucksburn, Aberdeen, UK

PRODUCTION AND MANAGEMENT

Impact of Culling Rates on Dairy Profitability

- Historical review of culling of dairy cows from herds in the United States
  Duane Norman, USDA/ARS, Beltsville, MD
- The impact of timing of the cull event on profitability in dairy herds
  Roger Cady, Monsanto Dairy Business
- Culling: Imagining a time when we will look forward to culling dairy cows
  John Fetrow, University of Minnesota
- The effect of animal removal on herd internal growth rates
  Andrew Skidmore, Blue Seal Feeds, NY
- A banker's perspective on culling
  Gary Sipiorski, Citizens State Bank of Loyal, WI
- Prospects for improving dairy cow survival through genetic selection
  Kent Weigel, University of Wisconsin
- Culling from a dairyman's perspective: A function of goals and management
  Jim Nocek, Spruce Haven Research Center, Haven, NY

RUMINANT NUTRITION

Exploring the Boundaries of Efficiency in Lactation: Metabolic Relationships in Supply of Nutrients in Lactating Cows

- Metabolic relationships in supply of nutrients in lactating cows
  Henry Tyrrell, (USDA-CSREES retired), Auburn, GA
- Integration of ruminal metabolism of dairy cattle
  Jeffrey Firkins, Ohio State University
- Nutrient delivery to the mammary glands
  Chris Reynolds, Ohio State University
- Regulation of key metabolic processes in lactation
  Shawn Donkin, Purdue University
- Improvement of mechanistic models of metabolism: recent improvements and current status
  Mark Hanigan, LongView Animal Nutrition Center, Gray Summit, MO

SHEEP SPECIES

Management of Gastrointestinal Nematodes in Sheep

- Immunological aspects of parasite control
  James Miller, Louisiana State University
- Use of QTL to determine parasite resistance in sheep
  Noelle Muggli-Cockett, Utah State University
- The effects of forages/plants on *Haemonchus contortus* infection
  Thomas Terrill, Fort Valley State University
- Epidemiology of sheep gastrointestinal nematodes in the U.S.
  Ray Kaplan, University of Georgia
- Biological control of nematode parasites in sheep
  Michael Larsen, Royal Veterinary and Agricultural University, Denmark

SOUTHERN BRANCH – ADSA

Innovative Approaches to Address the Changing Needs of Our Dairy Industry

- Innovative Staffing Models for Conducting Dairy Educational Programs
  Virginia Ishler, Penn State University
- Overview of our Undergraduate Student Internship Program
  TBA
- Dairy Consultant Perspective on the Changing Needs of Our Dairy Industry
  Nicholas Ohanesian, Clovis, CA
- Dairy Producer Perspective on the Changing Needs of Our Dairy Industry
  Don Bennink, North Florida Holsteins
- Industry Perspective on the Changing Needs of Our Dairy Industry
  Marjorie Faust, ABS Global, DeForest, Wisconsin

SWINE SPECIES

Effects of Maternal Nutrition on Offspring Performance

- The need for proper selection of production animals
  Tim Safranski, University of Missouri
- The biological basis for prenatal programming of postnatal performance
  George Foxcroft, University of Alberta, Edmonton, Alberta, Canada
- Consequences of birth weight for postnatal growth performance
  Charlot Rehfeldt, Research Institute for the Biology of Farm Animals, Dummerstorf, Germany
- Segregated parity management of sows to improve offspring performance
  Dean Boyd, Hanor Inc., Kentucky

TEACHING/UNDERGRADUATE

Scholarship of Teaching as related to Promotion and Tenure

- The scholarship of teaching and learning: Assimilating the scholar and the teacher
  Whitney M. Schlegel, Indiana University School of Medicine & Fellow of the Carnegie Foundation for the Advancement of Teaching and Learning
- Promotion and tenure on the basis of excellence in teaching: An institutional perspective
  Larry Connor, University of Florida and Jeff Armstrong, Michigan State University
- Promotion and tenure on the basis of excellence in teaching: A faculty perspective
  Michel Wattiaux, University of Wisconsin and Jeannette Moore, North Carolina State University
- Panel Discussion - Changing the System: Creating a Culture where Teaching is Valued

WOMEN/MINORITY ISSUES

Luncheon

- Making It Happen: Career and Family
  Carolyn Meyers, Provost, North Carolina A&T State University, Greensboro

*As of 2/7/04. All titles and speakers are subject to change without notice.