

Hugh Chester-Jones

Associate Professor

Appointment 45% Research, 45% Extension, 10% Service

Research Area Dairy Nutrition and Production Systems

Appointment History 1991-present Associate Professor
1985-1991 Assistant Professor

Graduate Program Affiliations

Animal Sciences – Member/Advising

Professional and Honorary Societies

Member, American Society of Animal Science

Member, American Society of Dairy Science

Member, Professional Dairy Heifer Growers Association

Member, American Registry of Professional Animal Scientists

Five Most Recent Significant Publications

Chester-Jones, H. and P.C.Hoffman. 2003. Calf Nutrition. Raising Dairy Replacements (Ed. P.C. Hoffman and R. Plourd), Chapter 3, pp 21-36, ISBN 0-89373-097-1, Midwest Planning Service, Iowa State University, Ames, Iowa 50011-3080.

The Raising Dairy Replacement Book is the revised version of the NC205 1991 4-state (MN, WI, IL, IA) Bulletin. An unique aspect of the project is that the book is accompanied by a CD package which not only includes all the chapters but software programs and worksheets developed for heifer growth monitoring and raising costs. The project was partially supported by the Agricultural and Software Program Industry, in addition to contributions from faculty in the 4-states. The bulletin and CD are distributed through the Midwest Plan Service at Iowa State, Ames. All chapters provide current knowledge on housing, health, management and nutrition. The book and CD have been widely distributed around the US and is recognized as a significant resource reference for the dairy industry.

Hoffman, P.C., N.M. Esser, L.M. Baumann, S.L. Denzine, M. Engstrom, and H. Chester-Jones. 2001. Short Communication: Effect of dietary protein on growth and nitrogen balance of Holstein heifers. J. Dairy Sci. 84:843.

This paper represented a collaborative study between the U of MN and WI. The study was designed for collection of basic metabolism balance data and an applied application for breeding-age dairy heifers. The objective was to more clearly define optimal dietary protein level above which excessive nitrogen would be excreted in the manure. The study contributed to the dairy heifer objectives in the regional dairy management project NC-1119. The study also has had an impact on controlling nutrient intake to reduce excess loss into the environment.

Moncrief, J., D. J. Mulla, H. H. Cheng, N. S. Eash, N. C. Hansen, J. S. Stock, M. A. Schmitt, G. W. Randall, H. Chester-Jones, C. J. Rosen, A. DiCostanzo, C J. Clanton, P. R. Bloom, P. R. Goodrich, C. C. Sheaffer, T. L. Richard, M. P. Russelle, D. Ginting, and M. Mozaffar. 1999. A Summary of the Literature Related to Manure and Crop Nutrients. Section J. *In: Generic Environmental Impact Statement Related to Animal Agriculture: A summary of the literature related to the Social,*

Environmental, Economic, and Health Effects. {Prepared for the Minnesota Environmental Quality Board, Minnesota's Bookstore, St. Paul.

This was an undertaking by COAFES faculty to review the literature for all aspects related to animal agriculture in response to a legislative mandate. The results were an exhaustive volume of world wide literature in 12 areas of which the Manure and Crop Nutrients was a key chapter related to livestock production. Chester-Jones was able to integrate recent nutrient cycling information from 6 Waseca County dairy farms that represented the cross-section of the midwest dairy industry (grazing dairy, traditional tie-stall dairies of 35-50 cows and 2 recently expanded dairies from 100 to 500 cows). The review was the most comprehensive ever conducted in the Upper Midwest.

Chester-Jones, H., A. DiCostanzo, T. Peters, H. Rebhan, D. Schaefer, and D. Vermeire. 1998. Now there's dairy steers on the farm: What do you feed them? *In. Proc. Tri-State Dairy Nutrition Conf. pp. 129-152. April 21-22, Grand Wayne Center, Ft. Wayne, Indiana, Michigan State, Ohio State, and Purdue Extension.*

This proceedings paper was a unique collaborative effort between the U of MN Beef Center Specialists (Chester-Jones and DiCostanzo); U of WI Beef Nutritionist (Schaefer), Agricultural industry professionals (Rebhan, Peters and Vermeire). The paper represented a culmination of current knowledge in applied nutrition and management research, and commercial feedlot economics for Holstein beef production. MN and WI are recognized for their contributions to applied Holstein beef production as a by-product of the dairy industry. Holstein beef work has been specifically associated with the Waseca Research Center for over 3 decades. Rebhan was the pioneer of the no roughage whole corn pellet program; Peters works with some of the largest Holstein beef feedlots in the US and developed a computer programmed feeding system. Vermeire developed the 'Baby Doll Nutrition' Program for young calves in the early 1990's.

Chester-Jones and P. Hoffman. 1998. Nutrition and management of dairy calves for heifer replacements or dairy-beef with an emphasis on pasture systems. *In. Jornadas de Alimentacion en la Produccion Lechera. pp 4-25. En el marco del programma farmer to farmer de la organizacion companeros de las Americas. 11 y 12 de Setiembre de 1998., Hotel Nirvana, Nineva Helvecia.*

This paper was presented at an International Conference in Uruguay. The slide presentation was interpreted into Spanish. The conference was part of a Farmer to Farmer of the Americas Dairy Diagnostic Program which included 4 University of Minnesota faculty. The significance of the focus on pasture systems was the ability to exchange ideas between grass-based dairy farming in Uruguay and a paradigm shift in the Upper Midwest to more grass-based dairies. The program epitomized the strength of the Uruguay-Minnesota Agricultural partnerships and opportunities for student exchange programs which followed.

Refereed Journal Publications and Book Chapters (Last Five Years)

Authored or co-authored 6 papers in peer-reviewed journals and 1 book chapter.

- Rudstrom, M. **H. Chester-Jones**, T. Imdieke, D. Johnson, M. Reese, and A. Singh. 2004. Comparative Economic Efficiencies and Performance of Dairy Heifers in Feedlot or Pasture-Based Systems on a Commercial Custom Heifer Grower Operation. *Prof. Anim. Sci.* 20 (accepted).
- Kertz, A.F. and **H. Chester-Jones**. 2004. Guidelines for Measuring and Reporting Calf and Heifer Experimental Data. *J. Dairy Sci.* 87 (In Press).
- Baumgard, L.H., W.J. Weber, G.W. Kazmer, S.A. Zinn, L.B. Hansen, **H. Chester-Jones**, and B.A. Crooker. 2002. Effects of selection for milk yield on growth hormone response to growth hormone releasing factor in growing Holstein calves. *J. Dairy Sci.* 85:2529.
- Hoffman, P.C., N.M. Esser, L.M. Baumann, S.L. Denzine, M. Engstrom, and **H. Chester-Jones**. 2001. Short Communication: Effect of dietary protein on growth and nitrogen balance of Holstein heifers. *J. Dairy Sci.* 84:843.

- Quigley, J.D., III, C.A. Jaynes, M.L. Miller, E. Schanus, **H. Chester-Jones**, G.D. Marx, and D.M. Allen. 2000. Effects of hydrolyzed spray dried red blood cells in milk replacer on calf intake, body weight, gain, and efficiency. *J. Dairy Sci.* 83: 788.
- Bach, A., I. K. Yoon, M. D. Stern, H. G. Jung, and **H. Chester-Jones**. 1999 Effects of type of carbohydrate supplementation for lush pastures on microbial fermentation in continuous culture. *J. Dairy Sci.* 82:153.

Book chapter:

- Chester-Jones, H.** and P.C.Hoffman. 2003. Calf Nutrition. *Raising Dairy Replacements* (Ed. P.C. Hoffman and R. Plourd), Chapter 3, pp 21-36, ISBN 0-89373-097-1, Midwest Planning Service, Iowa State University, Ames, Iowa 50011-3080.

Awards (Last Five Years)

- 2003 - PDHGA National Conference Chair Award, GreenBay, WI.
- 2000 – PDHGA National Conference Program Chair Certificate, St Louis, MO.
- 2000 - Top International Reviewer Award (within top 20 out of 350) for *Scientia Agricola*, Brazil.
- 1999 – Professional Dairy Heifer Growers Association, National Conference Local Chair Award, Minneapolis, MN

Proceedings and Invited Lectures (21) (Last Five Years)

- Chester-Jones, H.** 2004. Pasteurization of Waste Milk: Economic Perspectives. Proc. Four-State Dairy Management Conference, June 16-17, Dubuque, IA, MN, IA, WI and IL Dairy Extension Services.
- Chester-Jones, H.** 2004. Management and housing alternatives for the growing dairy heifer. NC-1119 Symposium – Dairy Replacement Profitability: Considerations for the Heifer Grower and Dairy Manager. *J. Dairy Sci.* 87(Suppl. 1):14. Abstract 56.
- Chester-Jones, H.,** M. Rudstrom, R. Imdieke, D. Johnson, M. Reese, and A. Singh. 2004. Comparative Economic Efficiencies and Performance of Dairy Heifers in Feedlot or Pasture-Based Systems on a Commercial Custom Heifer Grower Operation. Proc. Custom Heifer Raising VII Seminars, February 24-25, Green Bay and Fond du Lac, WI Dairy Extension Service.
- Chester-Jones, H.** 2003. Virtual tour of calf and heifer facilities. Proc. 2003 North Central Region Two-Day Dairy Calf and Heifer Tour & Workshop, pp 76-100, December 2-3, Spring Grove, Minnesota and Hotel Winneshiek, Decorah, Iowa, Professional Dairy Heifer Grower Association, University of Minnesota, University of Wisconsin and Iowa State Extension.
- Chester-Jones, H.,** R. Hall, B. Perry, D. Ziegler, **J. Linn,** and **A. DiCostanzo.** 2003. Effects of early calf nutrition on Holstein steer performance and carcass characteristics. *MN Cattle Feeder Rep.* B-494.
- Endres, M.I., H. Chester-Jones,** and J. Salfer. 2003. An overview of robotic milking. Pp 32-34 *In Proc. Minnesota Dairy Days 2003.*
- Kertz, A.F. and **H. Chester-Jones.** 2003. Guidelines for Measuring and Reporting Calf and Heifer Experimental Data. Annual Meeting Regional Dairy Management Project NC-1119, October 10-12, Amarillo, Texas.
- Baidoo, S., S. Noll, **H. Chester-Jones,** C. Clanton, J. Jacob, J. Linn, A. DiCostanzo, and J. Zhu. 2002. Nutrient cycling in animal agriculture. Invited seminar COAFES Nutrient Cycling Workshop, September 23, University of Minnesota, COAFES, St. Paul. *presenter.
- Chester-Jones, H.** 2002. Implant strategies for dairy steers. Proc. 63rd Minnesota Nutr. Conf. & Pre-Conference Symp.: Rendering: A Foundation for Food Security, pp 134-150, Eagan MN September 17-18, Minnesota Extension Service, St Paul, MN.
- Chester-Jones, H.** 2002. Implant strategies for dairy and beef steers. Proc. Minnesota Cattle Feeder Days, December 10-12, pp 19-34, Report B-486. University of Minnesota Dept. of Animal Science and Extension Service, St. Paul.

- Johnson, D. and **H. Chester-Jones**. 2002. Grazing management for dairy cattle. In: Proc. Minnesota Dairy Days, January 8-18, 8 locations in MN. pp 71-73.
- Olson, W.G., N. Auza, M. Schmitt, **H. Chester-Jones**, J.G. Linn, and M.J. Murphy. 2002 Survey of heavy metals in Minnesota Holstein dairy cattle: Soil, feed and liver concentrations. In: Proc. Minnesota Dairy Days 2002. January 8-18, 8 locations in MN. pp 77-78.
- Olson, W.G., N. Auza, M. Schmitt, **H. Chester-Jones**, J.G. Linn, and M.J. Murphy. 2002 Survey of copper in Minnesota Holstein dairy cattle: Soil, feed and liver concentrations. In: Proc. Minnesota Dairy Days 2002. January 8-18, 8 locations in MN. pp 79-84.
- Quigley, J.D. III, **H. Chester-Jones**, G.D. Marx, J.G. Linn, D.M. Allen, D.M. Ziegler, and W.B. Hansen. 2002. Effects of processed erythrocyte protein (PEP) in milk replacers fed with 0 or 25% alfalfa leaf meal in calf starters on pre-weaning growth, health, and efficiency of dairy calves. In: Proc. Minnesota Dairy Days 2002. January 8-18, 8 locations in MN. pp 85-87.
- Rudstrom, M., R. Imdieke, D. Johnson, **H. Chester-Jones**, M. Reese, A. Singh and G. Cuomo. 2002. Raising dairy heifers in feedlots or under a management intensive grazing system (MIG): Comparison of animal performance and costs - Year 1. In: Proc. Minnesota Dairy Days 2002. January 8-18, 8 locations in MN. pp 67-70.
- Marx, G.D., **H. Chester-Jones** and J.G. Linn. 2001. Integration of alternative feeds into dairy cattle feeding programs. *Minnesota Nutrition Conference Proceedings* 62:139-158.
- Heinrichs, J., P. Tozer, P. Hoffman, **H. Chester-Jones**, and M. A. Faust. 2000. Risk assessment of dairy heifer replacement options. NC-119 Dairy Management Research Committee. Midwestern Branch ADSA Symp., Midwest ASAS/ADSA Sectional Meetings, Des Moines. Abstract 89, p 22.
- Head, W.A., Jr., **H. Chester-Jones**, A. DiCostanzo, and D.G. Johnson. 2000. Supplementing grazing livestock. *Proc. MN Nitr. Conf.*, pg 114.
- Da, Y., T.S. Sonstegard, B.A. Crooker, F.A. Ponce de Leon, L.B. Hansen, **H. Chester-Jones**, M.L. Fahning, B.E. Seguin and G.D. Marx. 2000. Designs of resource populations for dairy QTL mapping. W.E. Peterson Lecture – Dairy Genomics: Trends and Opportunities, University of Minnesota, St Paul, December 11-12.
- Chester-Jones, H.**, P.C. Hoffman, M. Faust, J. Heinrichs, P. Tozer, R. James, S. Franklin, J. D. Quigley, A. Hippen, T. Johnson, C. Schwab and J. Shirley. 2000. Developing and integrating decision support systems to promote efficient, environmentally sound, and economically viable management systems for dairy youngstock – summary overview. NC-119 Scientific Exchange Conf., November 10, Ruakara McMeekan Centre, Hamilton, New Zealand.
- Head, W.A., Jr., **H. Chester-Jones**, A. DiCostanzo and D.G. Johnson. 2000. Supplementing Grazing Livestock. Proc. 61st Minnesota Nutr. Conf. & Minnesota Soybean Res. & Prom. Coun. Tech. Symp., pp 114-127, Bloomington, MN September 19-20, Minnesota Extension Service, St Paul, MN.

Funding (Last Five Years) – \$442,680

Ridley Feed Operations – Nutrition, Health, and Management of Dairy calves from 2 to 200 days of age. 2003-08. \$370,000 plus \$160,000 towards facility infrastructure.

Hubbard Feeds - Effect of high-energy-no roughage growing-finishing programs for Holstein steers and their effect on feedlot performance and carcass quality. 2002-03. \$14,652 plus \$5,000 in-kind feed.

Hubbard Feeds and Milk Products - Evaluation of pre-weaning liquid and dry feeding program and post weaning grower programs on calf performance and health. 2001-03. \$16,663 plus \$10,000 in-kind feed.

USDA – Development of an F-2 population for Dairy QTL Mapping. Da (PI). 1999-03. \$65,000.

Nouriche Nutrition - Effect of vitamin/trace-mineral level and feed intake level on performance of Holstein calves from one week to 8 weeks-old. 2002. \$1,500.

Cooperative Research Farms - Effects of early calf nutrition on Holstein steer performance and carcass characteristics. 2001-02. \$26,865.

Monsanto – Clinical Evaluation of Feeding Dairy Replacement Heifers. Crooker (PI). 1998-01. \$201,450.

Legislative Commission for Minnesota Resources - Sustainable Livestock Systems – Grazing alfalfa systems for dairy heifers on a commercial livestock farm. 2000. \$13,000.

Post-doctoral Supervision - Current Advisees

None

Courses Taught (Last Five Years)

Annual guest lectures and field trips in Dairy Herd Management (Dr. Jeff Reneau's undergraduate course) – 2000 to present;

Annual guest lectures in College of Veterinary Medicine Ruminant Nutrition Block (Dr Sandra Godden – 2000 to present;

Annual lectures on Grazing Systems for Dairy Herd Management Class, Ridgewater Technical College, Hutchinson (Dennis Bergquist instructor and course coordinator) – 1999 to 2002;

Service (Last Five Years)

Reviewer - *Journal of Dairy Science*- ad hoc 2000 to present.

Reviewer *Scientia Agricola* (Brazil) – 2000 to 2001.

Reviewer, *Texas Higher Education Board Agricultural Research Panel* – 2003.

Reviewer *USDA Agricultural Systems Competitive Grants* – 1999 to 2000.

Member University of Minnesota College of Agriculture, Food, and Environmental Sciences (COAFES) *IACUC Committee* – 1997 to present).

Member COAFES *Faculty Development Committee* – 2001 to present).

Member *Minnesota Nutrition Conference Planning Committee* - 1994-present.

Member *North Central Regional Dairy Calf and Heifer Workshops Planning Committee* – 1999 to present).

Member *Waseca FFA Alumni Chapter* 1999 to present (Vice-President 2004).

Service to National and Regional Research Committees (Last Five Years)

Regional Dairy Management Project NC-1119 *Co-Chair Rewrite Committee*, 2001 to 2002.

Professional Dairy Heifer Growers Association (*PDHGA*) *National Conference Committee* 1999 to present (Local Chair, 1999, Program Chair, 2000, Vice-Chair, 2002 and Chair 2003).

Member *American Dairy Science Association Growth and Development Symposium Committee* – 2004 to 2005.

Extension Activities (Last Five Years)

Program Team Involvement and Goals

The major programs include:

Dairy Modernization Program, Team Member

Audience: Minnesota dairy stakeholders, producers and consumers

Goal: Plan and implement educational curriculum for improved (modernized) dairy management techniques and operations.

Dairy Advisory Group, Member

Audience: Minnesota dairy stakeholders, producers and consumers

Goal: Provide input on the development of educational activities relevant to dairy producers and the dairy industry.

Minnesota Dairy Days, Program Planning Group Member

Audience: Producers, dairy farm advisors, industry professionals, students

Goal: Provide current information on important topics, present practical ideas on how producers can make stepwise changes in their operations to achieve success.

Dairy Farm Advisory Team Project - SE/SC Minnesota and the Dairy Profitability and Enhancement Program (DPEP), Contributor

Audience: Minnesota dairy producers

Goal: Increase the number of Minnesota dairy herds receiving one-on-one advice from local teams that assist with farm profitability, technology transfer, and quality of life for the dairy farm family.

Minnesota Whole-Farm Management Strategies Educational Video Series: Establishing and Monitoring a Rotational Grazing System for Dairy Heifers and its Integration into an Existing Farm Plan that Reflects Production, Environment, People Factors, and Sustainability, Project Coordinator

Audience: Dairy heifer growers

Goal: Provide background information on establishing a rotational grazing system for dairy heifers with the development of an educational video on whole-farm planning. The project is part of a LCMR livestock systems project coordinated through WCROC.

Calf and Heifer Management – Birth to 120 Days of Age – Workshop, Contributor

Audience: Expert and novice calf and heifers producers

Goal: Provide education on applied management techniques for rearing dairy calves and replacement heifers.

North Central Dairy Heifer Seminar and Tour Series and Grower Network, Contributor

Audience: Dairy producers, specialized growers, allied industry and veterinarians

Goal: Provide educational information on raising dairy replacements and provide information to those involved in the business of raising dairy replacements on all aspects of heifer raising management including business arrangements and communications between producer and grower.

Professional Dairy Heifer Growers Association, Planning Committee Member

Audience: Professional dairy heifer growers, industry professionals

Goal: Organize educational events in conjunction with the heifer grower board.

Product Development (selected materials developed)

- Calf Management Manual (150 pgs), a Midwest Plan Service publication, and companion CD. Coordinated by Dr. Pat Hoffman, U of WI with U of MN faculty authoring or co-authoring various sections.
- Minnesota Dairy Days CD: proceedings articles, updates on U of MN dairy research, additional topic-related material, and links to dairy related sites.
- Virtual library of nearly 300 PowerPoint slides showing dairy calf and heifer housing facilities from locations in Minnesota, Wisconsin and Iowa.
- Minnesota Whole-Farm Management Strategies Educational Video Series – two 30-minute videos on whole-farm planning.
- Dairy Calf and Heifer Conference Proceedings.

Program Delivery Events

Programs are delivered in a variety of formats including annual programs, workshops (classroom and on-farm), lectures, seminars, conferences, small group problem solving, interactive discussion groups, on-farm diagnostics, and county and regional meetings. Some examples include:

- Calf and Heifer Management – Birth to 120 Days of Age – Workshop
- Professional Dairy Heifer Growers Association Annual Meeting
- North Central Dairy Heifer Seminar and Tour Series
- Minnesota Dairy Days
- Minnesota Cattle Feeder Days

Extension Scholarship

Proceedings (7):

Chester-Jones, H., R. Hall, B. Perry, D. Ziegler, J. Linn, and A. DiCostanzo. 2003. Effects of early calf nutrition on Holstein steer performance and carcass characteristics. 2003 Minnesota Cattle Feeder Rep. B-494.

Endres, M.I., **H. Chester-Jones**, and J. Salfer. 2003. An overview of robotic milking. Proc. 2003 Minnesota Dairy Days. pp. 32-34.

Chester-Jones, H. 2002. Implant strategies for dairy steers. Proc. 63rd Minnesota Nutrition Conf. and Pre-conference Symp. Eagan, MN. September 17-18, 2002. University of Minnesota Extension Service, St. Paul, MN. pp. 134-150.

Chester-Jones, H. 2002. Implant strategies for dairy and beef steers. 2002 Minnesota Cattle Feeder Rep. B-486. December 10-12, 2002. University of Minnesota, Dept. of Animal Science and Extension Service, St. Paul. pp. 19-34.

Marx, G.D., **H. Chester-Jones**, and J.G. Linn. 2001. Integration of alternative feeds into dairy cattle feeding programs. Proc. 62nd Minnesota Nutrition Conf. pp. 139-158.

Head, W.A., Jr., **H. Chester-Jones**, A. DiCostanzo, and D.G. Johnson. 2000. Supplementing grazing livestock. Proc. 61st Minnesota Nutrition Conf. p. 114.

DiCostanzo, A., C.M. Zehnder, J.M. Akayezu, M.A. Jorgensen, J.M. Cassady, D.M. Allen, D.G. Standorf, J.G. Linn, H. Jung, L.J. Smith, G.C. Lamb, D. Johnson, **H. Chester-Jones**, and G. Robinson. 1999. Use of alfalfa leaf meal in ruminant diets. Proc. 60th Minnesota Nutrition Conf. and IPC Technical Symp. Bloomington, MN.

Research reports published in Extension publications (9):

Chester-Jones, H., R. Hall, B. Perry, D. Ziegler, J. Linn, and A. DiCostanzo. 2004. Effects of an intensive feeding program for Holstein bull calves from 1 week to 12 weeks of age on pre- and immediate post-weaning growth and subsequent overall feedlot performance and carcass characteristics. *In: Proc. 2004 Minnesota Dairy Days.* pp. 35-44.

Chester-Jones, H., L.J. Smith, N. Di Lorenzo, and A. DiCostanzo. 2003. Effects of early calf nutrition on Holstein steer performance and carcass effects of early calf nutrition on Holstein steer performance and carcass characteristics. *In: Proc. 2003 Minnesota Cattle Feeder Rep.* B-494.

Johnson, D., and **H. Chester-Jones**. 2002. Grazing management for dairy cattle. *In: Proc. 2002 Minnesota Dairy Days.* pp. 71-73.

Olson, W.G., N. Auza, M. Schmitt, **H. Chester-Jones**, J.G. Linn, and M.J. Murphy. 2002. Survey of copper and other minerals in Minnesota Holstein dairy cattle: Soil, feed and liver concentrations. *In: Proc. 2002 Minnesota Dairy Days.* pp. 79-84.

Olson, W.G., N. Auza, M. Schmitt, **H. Chester-Jones**, J.G. Linn, and M.J. Murphy. 2002. Survey of heavy metals in Minnesota Holstein dairy cattle: Soil, feed and liver concentrations. *In: Proc. 2002 Minnesota Dairy Days.* pp. 77-78.

- Quigley, J.D., **H. Chester-Jones**, G.D. Marx, J.G. Linn, D.M. Allen, D.M. Ziegler, and W.B. Hansen. 2002. Effects of processed erythrocyte protein (PEP) in milk replacers fed with 0 or 25% alfalfa leaf meal in calf starters on pre-weaning growth, health and efficiency of dairy calves. *In: Proc. 2002 Minnesota Dairy Days.* pp. 85-87.
- Rudstrom, M., R. Imdieke, D. Johnson, **H. Chester-Jones**, M. Reese, A. Singh, and G. Cuomo. 2002. Raising dairy heifers in feedlots or under a management intensive grazing system (MIG): Comparison of animal performance and costs—Year 1. *In: Proc. 2002 Minnesota Dairy Days.* pp. 67-70.
- Dahlen, C.R., K. Hachmeister, C.M. Zehnder, M. Dikeman, G.C. Lamb, L.R. Miller, **H. Chester-Jones**, and A. DiCostanzo. 2001. Influence of feeding malting industry byproducts to feedlot cattle on longissimus muscle sensory traits and tenderness. 2001 MN Cattle Feeder Rep. B-482.
- Dahlen, C.R., C.M. Zehnder, D. Ziegler, A. DiCostanzo, L.R. Miller, **H. Chester-Jones**, G.C. Lamb, and D. Westlund. 2000. Utilization of malting industry byproducts in feedlot diets. 2000 Minnesota Cattle Feeder Rep. B-473.

Newsletters:

- Chester-Jones, H.** 2002. Squeaky clean at the Scherbring Heifer Hotel: How one family is making biosecurity part of its specialized enterprise. Dairy Initiatives Newsletter. Vol. 11, Issue 1. Spring 2002. Department of Animal Science, University of Minnesota, St. Paul.