1990-1991 Dairy Digest

South Dakota State University Dairy Club

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Farm Journal
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Editor's Comments

This year, the Dairy Digest took on a new look by expanding the previous eight-page pamphlet to a 32-page annual. We encountered many new challenges along the way - such as creating advertisements, copy layout and design. Surprisingly, we encountered very few barriers.

We would like to extend our greatest appreciation to the Yearbook staff, Dan Tupa and Jim Taggart of University Relations, and our advisors, Dr. William Foster and Kirk Baldwin, for their continued dedication towards making the 1991 Dairy Digest a success. A special thank you goes to the secretaries who helped gather and type stories, especially Mrs. Helen Rollag.

Without the financial support from our advertisers this Yearbook would not be possible. A special thank you to each and every one of you. It is our privilege to present to you the 9th edition of the SDSU Dairy Digest.

1990-1991 Yearbook Staff

Editors: Jeannie Ronning  Tracy Tripp
Reporters: Sue Hawkins  Donna Lee  Ben Nighswonger  Lenorr Paschke  Pandi Pittman  Connie Villeneuve

President's Message

1990-91 was an action-packed year for our club. In April, the first Dairy Club-sponsored dance proved to be a huge success. As autumn arrived, so did the major fund raising events. During the South Dakota State Fair, as many workers as possible were gathered to run the dairy sales bar. Cheese box sales rounded out the busy, yet successful year. SDSU had a large representation at the Midwest Regional ADSA Convention held February 8th and 9th in Columbus, Ohio. On behalf of the club, I would like to express thanks to our editors, Jeannie Ronning and Tracy Tripp. Without their dedication, the success of our yearbook would have been impossible. I would also like to recognize the club advisors, Kirk Baldwin and Dr. William Foster, the 1990-91 Dairy Club officer team, the club members, and the Dairy Science faculty and staff. Their contributions made my job much easier. I hope this edition of the Dairy Digest brings back many fond memories. It is with great pride that I present the 1990 Dairy Club Digest.
1990-1991 Executive Leaders

Thanks to the Old . . . Congratulations to the New!

OLD OFFICERS (l to r) Donna Lee, President; Lloyd Metzger, Vice-president; Tracy Tripp, Jeannie Ronning, Dairy Digest Editors; Susan Hawkins, Historian; Lenorr Paschke, Treasurer; Andy Paulson, Historian; Harvey Shumaker, Secretary.

NEW OFFICERS Front Row (l to r): Shari Patterson, Historian; Susan Hawkins, President; Tracy Tripp, Historian. Back Row: Joel Owens, Vice-president; Andy Paulson, Secretary; Kevin Eggink, Treasurer.
1926 SDSU Judging Team Member Comments

Last year in the Dairy Digest, Dr. Foster and Dr. Baer touted the accomplishments of SDSU's judging teams. In fact, Dr. Foster stated that last year's Dairy Cattle team was the best ever to go through the SDSU program. This statement may not be entirely true, as evidenced by the following article, submitted by Dr. Ernie Herreid (B.S. 1927):

Ernest Herreid, John Nelson* and Harold Scholran** were on the 1926 Dairy Cattle Judging Team. The first two and John Steele** were on the Dairy Products Judging Team. We had summer jobs in the community. Our daily practice sessions began the month of August and continued until contest time. The college herd, county and state fair herds and prominent herds in South Dakota provided classes of animals of the desired quality. Professor Lynn Copland taught a course for juniors involving breed history, type and production, and judging practices. He was an excellent teacher. He resigned to take a position in one of breed associations. Lee Minor, a recent graduate of the University of Illinois, was appointed coach. We traveled in a most dependable Model T Ford. After the Dairy Congress in Waterloo, IA, we saw some great herds of Holstein cattle in a community near Oconomowoc, WI. Professor C. C. Totman taught the dairy product courses. He was an excellent teacher and coached our team. He collected blocks of cheese, tubs of butter and gallons of milk and ice cream from manufacturing plants. Experimental products from the college plant were available for practice sessions. Later we had some all-products judging sessions in Milwaukee, WI. We entered the cattle judging contest in Waterloo, IA. We did not do as well as we had expected, ranking eighth with 28 teams competing. We traveled to Detroit, MI, by train to the National Dairy Show. We judged five breeds of dairy cattle. We won first place in a 26-team contest. The next day, we judged dairy products, winning second place. Iowa State College won by a small margin of points. Caroll Iverson, an SDSC graduate in the class of 1916, coached the Iowa team. Our contest experiences were memorable. We met students from other colleges that terminated in some longtime friendships. We gained confidence in what we were capable of doing. We learned that it was important to excel and to master a subject, whether in academics or in an occupation.

*John Nelson lives in Sioux Falls, SD. **Deceased.

Editors Note: Following graduation from SDSC in 1927, Dr. Herreid received his M.S. and Ph.D. degrees from the University of Minnesota. He spent the next 34 years serving the university system in Minnesota, Vermont, and Illinois. He served as Editor-in-Chief of the Journal of Dairy Science for 16 years, followed by 16 years of assembling the Journal's annual index. The SDSU dairy Club salutes the outstanding career of Dr. Ernie Herreid.
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Dr. David A. Bryant  
Dean, College of Agriculture and Biological Sciences  

As a senior in high school, Dr. Bryant was on the Washington State FFA Dairy Cattle Judging Team that competed in the national contest at Waterloo, Iowa. He has been instrumental in the promotion of jalapeño cheese since coming to South Dakota. David A. Bryant has been dean of the College of Agriculture and Biological Sciences at South Dakota State University since July, 1987. He was formerly head of the Department of Range Resources and professor at the University of Idaho. Dr. Bryant has a background in college administration, teaching, extension and research. He has focused on improved communications with college constituents and a renewed commitment of the ABS College to work towards improving the quality of life for all South Dakotans.

Dr. John G. Parsons  
Department Head, Dairy Science  

Dr. Parsons was raised on a dairy farm in Manitoba, Canada, where he was active in 4-H activities. He received his B.S. and M. S. degrees from the University of Manitoba in Dairy Science. He completed his PhD degree at the Pennsylvania State University in 1968. Dr. Parsons has been Department Head of Dairy Science at SDSU since 1978. His research interests have been in the areas of dairy chemistry, quality control, and flavor research. As Department Head he has developed a cooperative intern program where all students are placed in a summer job related to their career choice. He has expanded the scholarship program to $27,000, awarded to 45 students each year. In addition Dr. Parsons was instrumental in the inclusion of the Dairy Science Department joint with the University of Minnesota Food Science and Nutrition Department as 1 of 6 Dairy Centers in the U.S. funded by the National Dairy Promotion Research Board. The Dairy Science Department at SDSU, with 85 students, continues to be the largest traditional department in the U.S. with a curriculum in both production and manufacturing (processing).
Dairy Science Faculty

Kirk A. Baldwin, Instructor

Kirk Baldwin joined SDSU in January 1989 and is currently Instructor/Dairy Plant Manager in the Dairy Science Department. Teaching responsibilities include the manufacturing portion of DS 130, Dairy Foods 231, and parts of Dairy Products Processing 321 and 322, and Field Experience 496 (A new class that involves learning plant procedures). Also, one of his major responsibilities is the management of the Dairy Plant. Currently the plant employs about 30 part time students and processes approximately 40,000 pounds of milk a month. Products include fluid milk, ice cream, frozen yogurt, cheese and butter. He indicates that the plant is a source of constant enjoyment and an occasional head shaking. Some of the problems encountered are the best learning experiences students can have. Through good employees, an active quality control program, and an endless amount of tasting, the dairy detects the few errors that occur and continues to produce top quality products. Kirk’s research interests are in the area of natural cheese and development of new products for the dairy bar. The dairy bar hosts two new varieties of cheese, root beer floats, ice cream novelties, frozen yogurt and the dairy soft drink Espree.

Dr. William W. Foster, Assistant Professor

My research program involves an attempt to identify components of herd management related to differences in farm income. Good herd management is a pattern of decision making that has a positive influence on herd performance and profit. In addition to improving herd management, my program involves improvement in herd and cow performance through use of DHI records and selective breeding. My graduate assistants in these projects are Doug Dom, Hendricks, MN, and Chad Lee, Colman. Perhaps one of the most exciting projects we have been associated with is research evaluating shredded newsprint as a bedding source for cattle. With current widespread interest in recycling, this has been a very visible project for the Dairy Science Department. Not only have we been able to participate in the recycling effort, but recycled newspaper has several advantages over straw as a bedding source. Because of an abundant supply, paper is considerably cheaper than straw. People shredding paper in enclosed barns notice that paper is much less dusty than straw, and newsprint requires less storage space because it is readily available year round. We are continuing to collect data on bedding use, labor, cost, and acceptability.

Dr. David R. Henning, Associate Professor

It is my desire to continue the strong emphasis on teaching and training of students at SDSU. The interaction between students, faculty and administration at SDSU is desirable for preparing students for responsible jobs upon graduation. My research interests are in two areas. First I am interested in microbiology as it relates to the dairy industry. While my background has been clearly associated with the use of beneficial microbes in the manufacture of cultured dairy products and in dairy fermentation, I am also interested in the control and destruction of spoilage and foodborne pathogenic microorganisms. Through research to be sponsored by the Minnesota - South Dakota Dairy Foods Research Center and the Agricultural Experiment Station, I will be investigating ways to improve the safety and quality of dairy foods. The use of vigorous fermentations and microorganisms selected for their preservation characteristics in food systems will be applied to traditional and new dairy products. Additionally, advances in the rapid detection of spoilage and pathogenic microorganisms in food will be monitored to ensure that our students and South Dakota companies can benefit from new technologies applicable to our products and processes.
Dairy Science Faculty

Dr. Robert J. Baer, Associate Professor

Bob Baer is an Associate Professor in the Dairy Science Department. He received a Ph.D. from the University of Georgia and has been on the faculty at SDSU since 1982. Teaching responsibilities include courses in Dairy Chemistry, Dairy Product Processing, and Dairy Product Evaluation. Dr. Baer is Coach of the Dairy Products Judging Team, which placed 1st at the National Contest in 1989 and 2nd in 1990. He has an active dairy research program and currently has several ongoing Minnesota - South Dakota Dairy Food Research Center projects. Research interests include effect of bovine somatotropin on milk products, production of cholesterol reduced and low saturated fatty acid dairy products, utilization of whey in frozen yogurt, production of Cheddar cheese from condensed milk, and rapid methods to analyze dairy products. He has over 50 scientific publications, is on the Journal of Dairy Science editorial board, and is a member of numerous professional societies and organizations.

Dr. Vikram V. Mistry, Assistant Professor

Dr. Vikram V. Mistry joined SDSU in October 1986 and is currently Assistant Professor in the Dairy Science Department. He received his B.Sc in Dairy Technology from the Gujarat Agricultural University, India, and M.S. and Ph.D degrees in Dairy Science from Cornell University. He teaches Technical Control of Dairy Products I, and portions of Dairy Products Processing I, and II and is adviser to sixteen undergraduate students, and five graduate students. He has an active research program in the Department with the SDSU Ag Experiment Station, and the Minnesota-South Dakota Dairy Foods Research Center. His research interests include Bifidobacteria, low-fat cheeses, high protein powders, dairy product analysis, micro-structure of dairy products, and application of membrane processing to dairy products. He has over fifty publications and is a member of the American Dairy Science Association, the Institute of Food Technologists, Sigma Xi, and Gamma Sigma Delta.

Dr. G. Alan Harrison, Assistant Professor

I joined the Dairy Science faculty in August 1988, as an Assistant Professor. A native of the great state of Kentucky, I received my BS degree from Eastern Kentucky University and M. S. and Ph.D degrees from the University of Kentucky. My teaching responsibilities include Dairy Cattle Feeding (DS 432) and production laboratory sections in Introduction to Dairy Science (DS 130). In addition, I share teaching duties with Dr. Willie Foster in two classes, Dairy Farm Management (DS 412) and Laboratory Techniques in Dairy Science (DS 731). I also advise eight undergraduate and one graduate student. Research interests are split between forage utilization and ruminal microbiology. Current projects include evaluation of microbial inoculants for corn silage and alfalfa haylage, primarily through the use of laboratory silos. My research lab also contains rumen-simulating fermenters, presently being used to examine effects of direct fed microbials on ruminal function. My graduate student, Russ Fisher, assists in these research endeavors. On a personal note, my wife, Mary Margaret, is an Instructor in the College of Nursing. We are eagerly expecting our first child this spring.
Dairy Science Faculty

Dr. E. Kim Cassel, Assistant Professor

Our Dairy Extension Specialist at SDSU is Dr. Kim Cassel. Cassel, originally from Plymouth Meeting, Pennsylvania, received her B.S. degree in Dairy Husbandry at Delaware Valley College of Science and Agriculture. She earned her M.S. and Ph.D degrees at Cornell University. Cassel worked as a Dairy Specialist at the University of Maryland before coming to SDSU. Her duties at SDSU include working with the South Dakota DHI, 4-H groups, nutrition, reproduction, and milk quality in dairy goats and dairy cattle.

Dr. David J. Schingoethe, Professor

My teaching program involves primarily the production lectures in DS 130, "Introduction to Dairy Science". My other two courses, "Ruminology" and "Physiology of Lactation", are taught during odd-numbered years. I had two graduate students complete their degrees in 1990, Dr. Yong Kook Kim completed the Ph.D. and Chris Austin completed the M.S. Research involves primarily protein and energy nutrition of dairy cows. Research completed during 1990 included studies of the interaction of nutrition and bovine somatotropin; and a comparison of two dietary fat sources, extruded soybeans and Megalac. Research in progress includes a joint trial with Dr. Baer to alter the fatty acid composition of milk by feeding unsaturated fats; and a series of experiments to evaluate ruminal protein and carbohydrate degradabilities (i.e. bypass proteins and carbohydrates). These experiments involve Dr. Harrison's rumen fermenters, fistulated cows, calves and heifers.

Professors Emeriti

Dr. Kenneth R. Spurgeon retired and was granted emeritus status July 1, 1985 and moved to his present office in DM 161. He continued to teach some courses until Dr. Mistry arrived in 1987. He has been a "Faculty Coordinator" for Cooperative Education in Dairy Science. He welcomes your questions and visits, formal or informal!

Dr. Howard H. Voelker retired June 1, 1987, was granted emeritus status July 1, 1987 and moved to his present office in DM 161. He continued to teach courses until Dr. Foster arrived in the Fall of 1988.
Dairy Science Support Staff

Secretaries (l to r) Deb Wieber, Helen Rollag, Jayne Raabe, Cheryl Grong, Karen Mohan. (Not pictured: Kim Johnson)

State Dairy Lab (l to r) Buck Kelley, Ann Crosser and Arnie Appelt.

Dairy Plant Supervisor:
Deverne Enevoldsen

Dairy Research and Production Manager:
Fenton Ludens

Dairy Farm Staff

Dairy Club Bids Marlys Moberg Farewell

Marlys Moberg, senior secretary, departed from the Dairy Science department this past fall. She was employed at SDSU for 19 years and spent 16 years within the Dairy department. Marlys' duties included handling the budget, bookkeeping and organizing interviews with potential employers for students. Marlys commented, "I'm going to miss being around college students." The Dairy Club and Dairy Science faculty would like to thank Marlys for her hard work and dedication that she contributed to the Dairy Science Department. We wish her the very best of luck in her upcoming future and her new home in Mission, TX.

(l to r) Marlys Moberg and Dr. John Parsons
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5. Jay Baldwin .............Mid-American Dairymen, Bloomer, WI
6. Tom Heilman .............Mid-American Dairymen, Pollock, SD
7. Marla Newman ............Crossroads Farms, Inc./Kroger Co., Indianapolis, IN
8. Dianne Roggenbuck .......Crossroads Farms, Inc./Kroger Co., Indianapolis, IN
10. Greg De Berg ...........Jackson Ice Cream Co., Denver, CO
11. John Droogsma ..........Jackson Ice Cream Co., Denver, CO
12. Gary Salfer ..............Wells Blue Bunny, LeMars, IA
13. Brad Bowers ..............Wells Blue Bunny, LeMars, IA
14. Curt Sales ..............Wells Blue Bunny, LeMars, IA
15. Harvey Shumaker ........Anderson Erickson Dairy Co., Des Moines, IA
16. Dan Carlbom ..............Gillette Dairy, Norfolk, NE
17. Erwin Heber ..............American Foods, Dallas, TX
18. Vern Landeen ............Land O'Lakes, Volga, SD
19. Matt Lentsch .............Land O'Lakes, Volga, SD
20. Doug Hanson ............SDSU Dairy Plant, Brookings, SD
22. Lloyd Metzger ............SDSU Research, Brookings, SD
23. Lenorr Paschke .........SDSU Research, Brookings, SD
24. Donna Lee ...............SDSU Research, Brookings, SD
25. Gary Hitt ..............Bridgeman Creamery, Grand Forks, ND
26. Dave Osterloh ..........Bridgeman Creamery, Grand Forks, ND
27. Sue Hawkins ............Associated Milk Prod., Inc., Fredericksburg, IA
29. Doug Anderson ..........First Dist. Assoc., Litchfield, MN
Smile and Say Cheese!

Creativity, originality and the pursuit of possibly the purest form of art...

The South Dakota State Dairy club spent weeks before Christmas carving blocks of cheese. The cheese is then individually sealed for cheese box sales. All this ends in packing and selling the boxes just in time for the holidays. A grand total of 5,096 pounds of cheese were used. All of it was made at the SDSU Dairy plant. This undertaking took a great deal of planning, volunteer work and fun. The cheese itself is made during the summer and the preceding semester prior to the cheese sales by the student workers. Gross sales totalled $17,582 provided $3,250 profit for the Dairy Club. This money will go for educational trips and club functions for both dairy production and manufacturing majors. The club would like to thank all our customers for their support in this annual sale and we hope that you will get to enjoy these extraordinary products of all flavors and forms. The variety of cheeses sold ranged from cheddar to Jalepeno (12 flavors in all), and five cheese spreads. Variety selections are an infinitesimal art for the inventive dairy major to endeavor in and for the appreciative cheese connoisseur to enjoy!

Cheese Sales Supervisors

Head Supervisors:
Harvey Shumaker, Doug Hanson

Supervisors:
Donna Lee
Lennor Paschke
Dave Janke
Shari Patterson
Marla Newman
Thomas J. Kinder
Ben Nighswonger
Bill Timm

Club Members – Package orders

Jeanie Ronning and Lloyd Metzger – Making a sale.
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Dedicate yourself to help keep the organization growing stronger.

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Maassen, Paul W .................. Miller, Scott D. ..........Production
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Tripp, Tracy L. .................... Sani, SD ..........Manufacturing
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Wolkow, Mathew D. .......... Veblen, SD ..........Manufacturing
Wolkow, Mathew D. .......... Rock Valley, IA ..........Manufacturing
Wolkow, Mathew D. .......... Lester, IA ..........Manufacturing
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Wolkow, Mathew D. .......... Big Stone City, SD ..........Manufacturing
Wolkow, Mathew D. .......... Columbia, SD ..........Manufacturing
Wolkow, Mathew D. .......... Kingsley, IA ..........Manufacturing
Wolkow, Mathew D. .......... Wabasso, MN ..........Manufacturing
Wolkow, Mathew D. .......... Virgil, SD ..........Manufacturing
Wolkow, Mathew D. .......... Pocahontas, IA ..........Manufacturing
Wolkow, Mathew D. .......... Faribault, MN ..........Production
Wolkow, Mathew D. .......... Woodstock, MN ..........Manufacturing
Dairy Science Scholarships

These scholarships total over $27,000. Much appreciation is expressed to all those who make these awards possible for Dairy Science students.

### 1990-91 DAIRY SCIENCE SCHOLARSHIPS

<table>
<thead>
<tr>
<th>Scholarship Name</th>
<th>Recipient</th>
<th>Amount</th>
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<tbody>
<tr>
<td>John Anderson Memorial</td>
<td>Michael Knutsen</td>
<td>$300</td>
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<tr>
<td>Associated Milk Producers, Inc.</td>
<td>John Droogsma</td>
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<td>Ross Baker Scholarship</td>
<td>Tom Heilman</td>
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<tr>
<td>Emery Bartle Memorial</td>
<td>Todd Stahl</td>
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<td>George Biggar Memorial</td>
<td>Mathew Wolkow</td>
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<td>Black Hills Milk Producers Assoc.</td>
<td>Jay Baldwin</td>
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<td>Brown Swiss/Gillette Dairy Scholarship</td>
<td>John Osburn</td>
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<td>Crossroads Farms/Kroger Dairy Scholarship</td>
<td>Lenor Paschke</td>
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<td>Dairy Club Scholarship</td>
<td>Harvey Shumaker</td>
<td>$500</td>
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<tr>
<td>H. Victor Joachim DHIA Memorial</td>
<td>Shari Patterson</td>
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<td>Ethan Dairy Products Company Scholarship</td>
<td>Doug Anderson</td>
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<td>Gilbert T. &amp; Olga Gilbertson Memorial</td>
<td>Maria Newman</td>
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<td>Hawley-Long &amp; Associates Scholarship</td>
<td>Jeannie Ronning</td>
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<tr>
<td>Clyde Helsper Memorial</td>
<td>David Janke</td>
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<td>Lakeside Dairy-Ralph Rogers Memorial</td>
<td>Eugene Enneking</td>
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<tr>
<td>Land O'Lakes-District 17 Scholarship</td>
<td>Gregory Derynck</td>
<td>$450</td>
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<td>Ronald Linneman Memorial</td>
<td>Mathew Wolkow</td>
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<td>James Marvel Memorial</td>
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<tr>
<td>Minnesota Dairy Processors Scholarship</td>
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<tr>
<td>Nordica International Scholarship</td>
<td>Chad Groos</td>
<td>$500</td>
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<tr>
<td>North Central Cheese Industries Assoc</td>
<td>Paul Maassen</td>
<td>$1,500</td>
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<td></td>
<td>Donna Lee</td>
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<td></td>
<td>Susan Hawkins</td>
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<td>H. C. Olson Scholarship</td>
<td>Gary Salfer</td>
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<td>T. M. Olson Scholarship</td>
<td>Steve Kvistad</td>
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<td>Alfred Hermann Rishoi Scholarship</td>
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<td>Thomas Kinder</td>
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<td>Shirley Seas Memorial</td>
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<td>Shumaker/Leedom Scholarship</td>
<td>Tracy Tripp</td>
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<td>Sinton Foods Company Scholarship</td>
<td>Doug Hanson</td>
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<td>SD State Dairy Association - Prod</td>
<td>Richard Eppe, Jr</td>
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<tr>
<td>SD State Dairy Association - Mfg.</td>
<td>Gregory DeBerg</td>
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<td>Lloyd Metzger</td>
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<td>Joseph Van Treeck Scholarship</td>
<td>Jennifer Ham</td>
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<tr>
<td>Wells Blue Bunny Scholarship</td>
<td>Brad Bowers</td>
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<tr>
<td>Wendt Scholarship</td>
<td>Dean Ebbinga</td>
<td>$275</td>
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<tr>
<td>Whittaker &amp; Associates Scholarship</td>
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### AWARDS

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<tr>
<td>D. F. Breazeale Memorial</td>
<td>Douglas Dorn</td>
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<tr>
<td>Dairy Judging - Manufacturing</td>
<td>John Popkes</td>
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<tr>
<td>Dairy Judging - Production</td>
<td>Tina Vilter</td>
<td>$150</td>
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<tr>
<td>Forbes Leadership Award</td>
<td>Debra Anderson</td>
<td>$200</td>
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<tr>
<td>Graber-Ford Award</td>
<td>Thomas Lias</td>
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### FRESHMAN SCHOLARSHIPS

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<tr>
<td>American Dairy Association of SD</td>
<td>Christopher Sorenson</td>
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<tr>
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<td>Douglas Post</td>
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<tr>
<td>SD Dairy Fieldmen's Association</td>
<td>Travis Struckman</td>
<td>$300</td>
</tr>
<tr>
<td></td>
<td>William Timm</td>
<td>$300</td>
</tr>
</tbody>
</table>
Careers in Dairy Science

at

South Dakota State University

Dairy Production is the systematic and knowledgeable approach to the production of milk on farms, and service in related support industries. Employment opportunities in Dairy Production include management or ownership of a dairy farm; field representative for breed associations and milk cooperatives; county agricultural agent; sales representative for feed, ag chemical, animal health supply, and milking equipment companies; sales and technical service for AI organizations; agricultural finance; and continued study in graduate school.

Dairy Manufacturing is the manufacturing, processing, and merchandising of milk and milk products. Opportunities in Dairy Manufacturing include management and supervision of an ice cream, cheese, or fluid milk products plant; dairy plant maintenance engineer; quality control manager/laboratory technician; merchandising processing equipment; dairy inspector; sales representative for dairy supply firms; management of food processing plants; and continued study in graduate school.

- Graduates in Dairy Science have had 100% placement in dairy positions throughout the U.S., with competitive starting salaries.
- Education is provided by a staff of ten faculty members in all phases of teaching, research and extension.
- SDSU has an active Dairy Science Club of 90 students.
- Financial Aid is available to all undergraduates in the form of part-time employment and scholarships.
- Part-time employment is available at the 200 cow Dairy Research Unit, as well as the modern, well-equipped Dairy Processing Plant and Sales Room.
- Scholarships were awarded to 47 students this year, with awards totaling $27,405.

For more information on a career in Dairy Science, contact Dr. John Parsons, Head Dairy Science Department, South Dakota State University, Box 2104, Brookings, SD 57007-0647 or phone: (605) 688-4116
1990-1991 Dairy Science Graduates

Doug C. Anderson
Hometown: Cosmos, MN
Degree: Dairy Manufacturing
Activities: Professional sportsman (hunting).
Most Memorable Event: Finding gate 10 after beer garden at State Fair.

Brad C. Bowers
Hometown: Cherokee, IA
Degree: Dairy Manufacturing and a Minor in Commercial Economics
Future Plans: Be all that I can be by living life to its outer extremes.
Activities: Outdoor activities, racquetball, downhill skiing, and scuba diving.
Most Memorable Event: When Daryl Berg and Chris Blase taught me the finer points of watching and participating in a hockey match.

Janel K. Christensen
Hometown: Big Stone City, SD
Degree: Dairy Manufacturing and Production, and a Minor in Animal Science.
Future Plans: Dairy Farm Specialist for Kraft General Foods, Melrose, MN.
Activities: Dairy Club, Collegiate 4-H, SDSU Dairy Cattle Judging Team, Little I.
Most Memorable Event: Dairy Reserve Fitting and Showmanship in Little "I".

Eugene N. Enneking
Hometown: Melrose, MN
Degree: Dairy Manufacturing

Dan C. Carlbom
Hometown: Interior, SD
Degree: Dairy Manufacturing
Future Plans: Become a Senator and have 10 kids while being a hunting guide on the side.
Most Memorable Event: Wedding Day.

Brian I. Flom
Hometown: Kenyon, MN
Degree: Dairy Production
Future Plans: Farm with my father.
Activities: SDSU varsity basketball.
Most Memorable Event: Attending the regionals in Missouri for basketball team playoffs.
1990-1991 Dairy Science Graduates

George A. Koenig
Hometown: Butterfield, MN
Degree: Dairy Manufacturing, Minor in Microbiology and Economics.
Future Plans: Continue to be a professional student while working on the side.
Activities: Skiing, broom hockey, oozeball, golf, bull riding.
Most Memorable Event: Spring break 1990 (Mexico).

Steve E. Kvistad
Hometown: Woodlake, MN
Degree: Dairy Manufacturing
Future Plans: Retirement at age 50 and a professional golfer.
Most Memorable Event: Late night swims.

Marla D. Newman
Hometown: Corsica, SD
Degree: Dairy Manufacturing and Production
Future Plans: Work in a Dairy Manufacturing Plant and visit Europe.
Activities: Dairy Club, Natl. Guard Womens Aux., Cheese Box Supervisor and Restoring Muscle cars.
Most Memorable Event: 1990 ADSA.

Cullen Ober
Hometown: Glencoe, MN
Degree: Dairy Production
Activities: Men's Basketball Team, Intramurals.

John P. Osburn
Hometown: Rapid City, SD
Degree: Dairy Manufacturing
Future Plans: Work for Carnation in Waverly, IA.
Activities: Farm House, Alpha Zeta, Intramurals, Dairy Club.
Most Memorable Event: Living in Denver, CO with Todd Heib, Fred Timp and John Houg. First internship learning the start up and shut down procedures at Jacksons.

David L. Osterloh
Hometown: Wilmot, SD
Degree: Dairy Manufacturing
1990-1991 Dairy Science Graduates

Darrel D. Rennich
Hometown: Harrisburg, SD
Degree: Dairy Production
Future Plans: Livestock Production Specialist with Cenex/Land O'Lakes.
Activities: Dairy Club, Dairy Cattle Judging Team, Little I, Farmhouse.
Most Memorable Event: Dairy Cattle team placing 2nd in Nation, and Little I Round Robin Winner.

Harvey L. Shumaker
Hometown: Humboldt, SD
Degree: Dairy Manufacturing
Future Plans: Possibly attend graduate school, employment in the Dairy Industry.
Activities: Dairy Club, Intramural sports, Dairy Products Judging Team.

Todd J. Stahl
Hometown: Freeman, SD
Degree: Dairy Production
Future Plans: Farming with my father.
Most Memorable Event: Member of Dr. Foster's 1990 Dairy Cattle Judging Team and traveling to Waterloo, IA.

Dairy Science Graduate Students

Leigh River Farm

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Dealer
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San Antonio, Texas 78283-3999

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National Holstein
Convention 1991
in South Dakota
June 23-27, 1991
Sioux Falls, SD

A "foot stompin" good time in the "Frontier Spirit"

Some of the events include

106th Annual Convention
Bussed Farm Tours
Art Display
Scholarship Craft Show
Junior Program
DJM semi-finalists discussion panel
Semi-finalist DJM luncheon, followed with interviews for the semi-finalists
Dairy Bowl Quiz Contest
Optional tours of a frontier ghost town
Trips to the Sioux Falls Wildlife Museum and Zoo
Buffalo Village
Wild Water West
Trade Show
Convention Cattle Sale at McCrossans

Sunday evening will include a buffet and get-acquainted time and dance featuring John Micheals a well-known radio host.

Host day features a Rodeo at the Sioux Empire Fairgrounds followed with a barbecue at McCrossans Boys Ranch and other events

1991 NATIONAL HOLSTEIN CONVENTION BANQUET
Wednesday evening, featuring the "BIG BAND" sound of the Gayle Pifer Orchestra

1991 NATIONAL HOLSTEIN CONVENTION GOLF TOURNAMENT
Room for 85 players, men and women, with a chance to win a new pickup for a hole in one donated by Prostrollo All American Motor Mall in Madison, SD

1991 NATIONAL HOLSTEIN CONVENTION LADIES LUNCHEON
will feature the down-home, apple-pie humor and comical ditties of "GRANNY"

For a complete list of events and schedule call or write:
South Dakota Holstein Association
RR1 Box 131
Baltic, SD 57003
(605) 529-5258
The Midwest American Dairy Science Association (ADSA) Convention was held at Ohio State University in February, 1991. Attending were approximately 250 students from 14 colleges throughout the Midwest. The SDSU group was represented by ten members, along with Dr. William Foster, Advisor. The trip offered a great wealth of learning and knowledge as well as a good time for everyone who attended. The members left early Thursday morning and arrived in La Crosse, WI, where they toured the Old Style Brewery. After gaining a knowledge of making beer, the group stayed in Chicago, IL. On Friday, the club toured the Kraft General Foods research plant in Glenview, IL. They proceeded on to the ADSA Conference at Ohio State University where they also toured the Select Sires bull stud.

The Conference started off with quiz bowl preliminaries. The SDSU club had two teams, consisting of the following members: Team 1 - Marla Newman, Lloyd Metzger, Andy Paulson and Russ Thyen. Team 2 - Doug Post, Heather Beckstrand, Tracy Tripp and Susan Hawkins. The first quiz bowl team won that evening and made it into the semi-finals. Evening activities ended with a dance. The ADSA Conference continued Saturday morning with the completion of the quiz bowl, with SDSU finishing second to the University of Minnesota. Ron Buffington presented "If you Believe in You" in the afternoon. Mr. Buffington is a private Holstein consultant and works with Network Marketing.

Paper presentations were given in the areas of dairy production and dairy foods. Marla Newman represented SDSU with the topic, "New Uses for Recycled Whey" for which she received 2nd place. Susan Hawkins was elected Secretary/Treasurer and Dr. William Foster was re-elected as ADSA Advisor. The Awards Banquet was held in the evening. Dr. William J. Tyznik, Professor of Animal Science at the Ohio State University, was the keynote speaker. SDSU received the award for the "most miles traveled" to the ADSA Conference. A dance concluded the Conference. On Sunday, the trip continued with a tour of Bella Estansia Holsteins in Indianapolis, IN. The SDSU members spent the evening in East Moline, IL. As they made their way back to Brookings on Monday, members toured the Case-IH Plant in Moline, IL. Many people, throughout the trip, took the time to accommodate the members and a special appreciation goes out to all of them.

(1 to r) Lloyd Metzger, Doug Post, Russ Thyen, Andy Paulsen, Tracy Tripp, Jennifer Ackerman, Marla Newman, Heather Beckstrand, Connie Villeneuve and Sue Hawkins.
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4EX - 11VG
16GP - None Lower

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Good Times, Good Friends; Dairy Club Socials

Throughout the school year, dairy club members not only promote the industry and participate in fund raisers, they also find time to engage in social events. The Fall picnic, held early in the year, helps recruit new prospective members for the dairy club. Before feasting on hamburgers, students work up their appetites with a rigorous game of softball. Hobo Day festivities featured "Marilyn Moonroe" as the main eye catcher of the 1990 Dairy Club float. Vern Landeen was once again the cow, which was accented with a pink polyester dress. The Dairy Club was well represented at the 67th annual Little International held March 30-31, 1990, in the Animal Science Arena. Many club members were involved with the showing and fitting competitions. Warren Johnson (Kerkhoven, MN) received championship honors in both showmanship and fitting. Janel Christensen collected the reserve showmanship and fitting trophies. The Dairy Superintendent was Darrel Rennich. In addition, the Dairy Club earned a third place finish in the Holstein World Dairy Club Photo Contest.
State Fair Dairy Booth

Each year the SDSU Dairy Club operates the Dairy bar at the South Dakota State Fair in cooperation with the American Dairy Association of South Dakota. This year twenty Dairy Club members and non members joined together and sold products such as milk, chocolate milk, ice cream bars, ice cream sandwiches (provided from Lakeside Dairy), Goldrush bars, and of course our traditional SDSU ice cream cookies, which were a big hit! Profit made from the ADA Dairy booth goes towards many activities for the upcoming year such as club trips, picnics, and other social events. Working at the ADA Dairy booth is not only a great time to get reacquainted with dairy club members and new members, but it is also a great opportunity to meet Dairy consumers!

Dairy Leader from Australia visits SDSU

Joy Manners, President of Victorian College, located in Werribee Victoria, Australia, visited the Dairy Science Department this past fall. She was touring college campuses with a Dairy Science curriculum in the United States. Below is a comparison of milk production per cow, per capita milk production and consumption of dairy products between the U.S. and Australia in 1990.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>Milk Production</td>
<td>Fluid milk</td>
<td>Butter</td>
<td>Cheese</td>
</tr>
<tr>
<td></td>
<td>Per cow</td>
<td>Per Capita</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U. S.</td>
<td>14,244</td>
<td>582</td>
<td>237</td>
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<tr>
<td>Australia</td>
<td>8,469</td>
<td>864</td>
<td>232</td>
<td>6.1</td>
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</table>

*Includes cows' milk and other milk.

Australia produces other dairy products such as yogurt, ice cream, infant foods, table cream, condensed and concentrated evaporated skim milk and whole milk, cascin, whey powder, and skim and whole milk powder. There are 15,320 farms in Australia, with total milk production of 6,262 million liters.
31 Years of Continuous AI
(and that's No Bull!)

Why AI?

1. It's Safer!
   No dairyman has ever been killed by a semen salesman.

2. It's Easier!
   Going to the tank is like going to the bank

3. It's Profitable!
   Using High Dollar sires means more profit!
1990 Judging Teams: The Winning Continues!

Manufacturing Judging Team

The 1990 Dairy Products Judging Team won 1st place in cottage cheese, 2nd place in yogurt, and 3rd place in Cheddar cheese, en route to taking 2nd place in All Products at the Intercollegiate Dairy Products Evaluation Contest held in Montreal, Canada. Team members included Greg Derynck, Marshall, MN; John Kuecker, Webster, SD; Paul Maassen, Rock Valley, IA; and Harvey Shumaker, Humboldt, SD. The team was coached by Dr. Bob Baer.

A total of 22 teams competed in the National Contest, which included 65 contestants. John Kuecker placed 3rd in individual competition and placed 1st in cottage cheese. Harvey Shumaker placed 1st in yogurt.

The team also competed with 9 other teams at the Regional Contest, which was held at the Kraft General Foods Research Labs in Glenview, IL. The team finished 3rd overall in All Products, 2nd in cottage cheese and ice cream, and 3rd in milk and butter. Individually for All Products Paul Maassen was 4th and Harvey Shumaker was 5th out of 25 contestants. Greg Derynck was 3rd in yogurt, Paul Maassen was 4th in butter, and Harvey Shumaker was 1st in cottage cheese and 3rd in ice cream.

Production Judging Team

Coached by Dr. Willie Foster participated in two contests. At the Regional Contest held in Waterloo, IA, the team placed 13th out of 16 teams competing. They placed 5th in Guernsey, 9th in Ayrshire, and 10th in Brown Swiss and Reasons. Team members and individual placings were: Andy Paulson (Andover, SD), 11th in Guernsey, 13th in Jersey, 22nd in Ayrshire, 25th in Brown Swiss, and 24th Overall; Todd Stahl (Freeman, SD), 2nd in Guernsey; Russ Thyen (Waverly, SD), 24th in Jersey; and Donna Lee (Arlington, SD).

At the National Dairy Cattle Judging Contest held in Madison, WI, the team placed 20th out of 27 teams Overall and placed 13th in Milking Shorthorn, 15th in Holstein, and 18th in Reasons. Team members and individual placings were: Russ Thyen 11th in Brown Swiss, 12th in Holstein, and 55th Overall; Donna Lee 34th in Milking Shorthorn, 45th in Reasons, and 58th Overall; Todd Stahl 21st in Ayrshire; and Andy Paulson. Assistants for this year's team were Darrel Rennich (Harrisburg), Tina Vilter (Hartland, WI), and Janel Christensen (Big Stone City).

"Education is what happens when you read the fine print. Experience is what you get when you don't."

Farm Journal
Smile . . . You're about to be Caught!

What's Wrong, Russ?

This isn't Hawaii?

I'm sorry, Gene!

Were you a bad boy?

Is there anything else to eat?

Are you having fun yet, Dave?

What's under the table, Sue?
The 1990 South Dakota Eminent Farmer Award

Arlen Berwald of Toronto, SD, has had one of the top producing dairy herds on Official Test in South Dakota for the last 30 years. Currently, the Berwald Registered Dairy Farm has grown to include 310 Holstein milking cows and 1,400 dairy animals; 1,600 acres; a new line of farm machinery; and a modest farmstead that includes two new farm homes, six new farm buildings, plus four new silos. Arlen has attained the honor of being one of the state's top dairymen by using the best AI sires available. He is an excellent manager and is quick to use new improved methods of dairy production. In 1979, Arlen Berwald was one of the first dairy producers in South Dakota to use embryo transplants. Today, more than 200 calves have been born from fertilized embryos. Arlen was one of the first dairymen in Deuel county to use a hay preservative attachment on a baler. He has also used a computerized dairy feeding system, and has recently completed a new dairy barn that will house 180 cows.

Arlen Berwald's reputation as an outstanding dairy producer goes beyond the borders of South Dakota. He has exported more than 1,000 bulls and heifers to eight foreign nations and nearly every state in the union, including producers and scientists from the Soviet Union, China, Saudi Arabia, Indonesia, Taiwan, Brazil, Argentina, Mexico, and Egypt. Arlen Berwald has been an active member of the Deuel County Dairy Herd Improvement Association since 1970, and is a member of the state and national Holstein Association. He has also served on the Deuel County Fair Board, Board of Directors for the Farmers State Bank in Estelline, is an American Legion Member and Korean war veteran. The Berwald family are active members of the Bethel Baptist Church in Brookings. The Berwald's were recognized as the South Dakota Dairy Family of the Year in 1989.

Arlen and his wife, Eunice, have five children; Calvin and Mike, both of Toronto; Lisa Abeler of Upsala, MN, Rita TeKrony of Toronto; and Sheila Gross of Wisconsin.

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BLACK RASPBERRY
BLUE BERRY
BROWNIE FUDGE
BUBBLE GUM
BUTTER ALMOND
BUTTER BRICKLE
BUTTER PECAN
BUTTERSCOTCH
BUTTERSCOTCH BON BON
CARMEL
CHERRY
CHERRY BON BON
CHERRY NUT
CHERRY TING-A-LING
CHOCOLATE
CHOCOLATE ALMOND
CHOCOLATE BROWNIE
CHOCOLATE CHERRY
CHOCOLATE CHIP
GERMAN CHOCOLATE
CHOCOLATE M&M
CHOCOLATE MINT

CHOCOLATE
MARSHMALLOW
CHOCOLATE PEANUT BUTTER
CHOCOLATE PECAN
CHOCOLATE PEANUT
CHOCOLATE WHOPPER
CINNAMON
COFFEE
EGG NOG
GRAHAM CRACKER
LEMON CUSTARD
LEMON CHIP
LICORICE
MANGO
MAPLE NUT
MINT CHOCOLATE CHIP
MINT OREO
M&M
M&M MINT
OREO
OREO CHOCOLATE
OREO STRAWBERRY
PECAN
PEACH
PEANUT
PEANUT BUTTER
PEANUT CLUSTER
PECAN PRALINE
PEPPERMINT
PINEAPPLE
PUMPKIN
REESES
REVEL CARAMEL
REVEL FUDGE
REVEL BLACK RASPBERRY
REVEL BLUE BERRY
REVEL BUTTERSCOTCH
REVEL CHOCOLATE
REVEL LICORICE
REVEL PEACH
REVEL PEANUT BUTTER
REVEL PINAapple
REVEL ROOTBEER
REVEL STRAWBERRY
ROCKY ROAD
ROOTBEER
S'MORES
SNICKERS
SPUMONI
STRAWBERRY
VANILLA
WHOPPER

**OTHER PRODUCTS**

SHERBET

APPLE CINNAMON
BLACK RASPBERRY
LEMON
LIME
ORANGE
PINEAPPLE
RASPBERRY

CHEESE

MILD CHEDDAR
AGED CHEDDAR
BACON CHEDDAR
SMOKED CHEDDAR
COLBY
COLBY-JACK
MONTEREY JACK

For Information or Orders: Phone (605) 688-5420