

# Journal of Dairy Science

February 1979

Volume 62, Number 2

## CONTENTS

NEWS AND EVENTS .....	4
GENERAL INTEREST:	
Administrative Information .....	3
Memorial – C. A. Iverson .....	359
RESEARCH PAPERS:	
Photogeneration of Superoxide Anion upon Illumination of Bovine Milk Serum Proteins with Fluorescent Light in the Presence of Riboflavin. M. Korycka-Dahl and T. Richardson .....	183
Photochemical Changes in Major Whey Proteins of Cow's Milk. T. M. Gilmore and P. S. Dimick .....	189
Heterogeneity of Reduced Bovine $\kappa$ -Casein. H. Doi, F. Ibuki, and M. Kanamori .....	195
Buffer, Lactic Fermentation, and Rennet Coagulation Properties of Skim Milk Retentates Produced by Ultrafiltration. H. R. Covacevich and F. V. Kosikowski .....	204
Evaluation of Commercial Phage Inhibitory Media. T. J. Gulstrom, L. E. Pearce, W. E. Sandine, and P. R. Elliker .....	208
Quality and Yield of Cottage Cheese Influenced by Psychrotrophic Microorganisms in Milk. F. O. Mahamed and R. Bassette .....	222
Swiss Cheese Flavor: I. Chemical Analysis. S. L. Biede and E. G. Hammond .....	227
Swiss Cheese Flavor: II. Organoleptic Analysis. S. L. Biede and E. G. Hammond .....	238
Quantitation of Proteinaceous Soil Removal from Clean-in-Place Systems. L. M. Rasmussen and R. B. Maxcy .....	249
$\gamma$ -Glutamyl Transpeptidase of Bovine Milk Membranes: Distribution and Characterization. C. R. Baumrucker .....	253
Metabolism of Ornithine in Perfused Goat Udder. E. Roets, R. Verbeke, G. Peeters, H. Axmann, and G. Proksch .....	259
Endocrine Control of Energy Metabolism in the Cow: Correlations of Hormones and Metabolites in High and Low Yielding Cows for Stages of Lactation. I. C. Hart, J. A. Bines, and S. V. Morant .....	270

Interaction of Exogenous Corticotropin and Environment on Protein Bound Iodine and Other Plasma Biochemical Parameters. E. T. Segura, J. D. Roussel, D. G. Satterlee, L. F. Gomila, L. Shaffer, and J. C. Bergeron . . . . .	278
Effect of Diet Quality on Adenosine-5'-Triphosphate Concentration and Adenylate Energy Charge of Rumen Microbes from Fistulated Cows. J. D. Erfle, S. Mahadevan, and F. D. Sauer . . . . .	284
Effect of Particle Size of Corn Silage on Digestibility and Rumen Fermentation. E. M. Sudweeks, L. O. Ely, and L. R. Sisk . . . . .	292
Effects of Dry Matter Content of Barley Silage on Nutrient Preservation and Animal Response. T. J. Snyder, C. E. Polan, and C. N. Miller . . . . .	297
Complete Rations for Holstein Calves 8 to 18 Weeks of Age. K. Borland and E. M. Kesler . . . . .	304
Repeatability of Milk and Fat Yield for Cows with Changed Environments. P. A. Oltenacu, C. C. Olson, and C. W. Young . . . . .	310
Extending Partial Lactation Milk and Fat Records with a Function of Last-Sample Production. G. R. Wiggans and L. D. Van Vleck . . . . .	316

**TECHNICAL NOTES:**

Plasma Retinol Transport and Clearance in Hypervitaminosis A. S. Donoghue, D. S. Kronfeld, and C. F. Ramberg, Jr. . . . .	326
Response of Lactating Cows to 300 mg of Supplemental Vitamin E Daily. D. J. Schingoethe, J. G. Parsons, F. C. Ludens, L. V. Schaffer, and H. J. Shave . . . . .	333
Characterization of Groups N and D Streptococci Isolated from Rumen Fluids. R. A. Ledford and J. M. Brown . . . . .	339

**OUR INDUSTRY TODAY:**

Role of the Dairy Cow in World Food Production. H. J. Hodgson. . . . .	343
Stability of L-Ascorbic Acid Added to Whole, Chocolate, and Low Fat Milks. M. K. Head and A. P. Hansen. . . . .	352
Time of Artificial Insemination and Fertility in Dairy Cattle. R. H. Foote . . . . .	355

**ASSOCIATION AFFAIRS:**

Memorial – C. A. Iverson . . . . .	359
------------------------------------	-----