

TABLE OF CONTENTS

Minutes of the Sixty-Second Annual Meeting of the South Dakota Academy of Sciences	5	Ultrastructure of Corn Leaf Tissue Infected with the ND18 Strain of Barley Stripe Mosaic Virus. C. R. McMullen, W. S. Gardner and G. A. Myers	100
Committee Reports	5	Comparative Eutrophication and Production Measurements in Prairie Lakes. Lois Haertel	105
Memorial Statements	8	Eastern Redcedar (<i>Juniperus virginiana</i>) Reproduction and Spread in Brookings County, South Dakota. H. L. Hutcheson and Steven C. Rothe	125
New Business	10	Habitat Relationships of Breeding Waterfowl on Stock Ponds in Northwestern South Dakota. Lester D. Flake, Gene L. Petersen and W. L. Tucker	135
Treasurer's Report	12	Regeneration of Plantlets from Leaf Cultures of <i>Lilium longiflorum</i> Thumb. Nancy E. Stenberg, C. H. Chen and J. G. Ross	152
Minutes of the Collegiate Section of the South Dakota Academy of Science	14	Aberrant Body Temperature Regulation in Obese Yellow (<i>A/a</i>) Mice. Gerald R. Cizadlo, Nels H. Granholm and Robert C. Wagers	159
Membership Lists	15	Fishes of the Little Missouri River, South Dakota. Joel P. Bich and Charles G. Scalet	163
Presidential Address	20	A Mosaic or Nonpersistent Virus Isolated from Pumpkin in South Dakota. W. N. Stoner	178
Senior Research Papers Presented at the Sixty-Second Annual Meeting of the South Dakota Academy of Science:		A Comparison of Pumpkin Mosaic Virus and Isolates of Squash Mosaic Virus. El-Sayed A. Salama and W. H. Sill, Jr.	185
Origin of the Prairie Coteau, Northeastern South Dakota. Perry H. Rahn	28	The Use of Plant Tissue Culture Techniques for Studying the Growth of Morel. J. J. Wassom and D. J. Holden	197
Simulation of the Solar Installation at the Mt. Rushmore Visitor Center. Don C. Hopkins	34	Effect of Stubble Height on Regrowth of Smooth Bromegrass Selections Compared with Orchardgrass and Reed Canarygrass. D. F. Gross and J. G. Ross	207
Potential for Geothermal Energy in South Dakota. John Paul Gries	54	Composition of South Dakota Feeds. A. W. Halverson and G. F. Gastler	212
Vacuum-Heat Pump Dryer: James D. Bruce and John M. Bruce	58	Soil-Surface Crust and Plow-Layer Differences Which May Affect Runoff Quality. E. M. White and E. J. Williamson	225
Feasibility Study of a Capacitance Humidity Sensor for Stratospheric Application. D. K. Lefevre, Mark A. Howe and T. Ashworth	68	Population Status of Beaver on the Free-Running Missouri in Southeastern South Dakota. Robert J. Vanden Berge and Paul A. Vohs, Jr.	230
Induction of Rat Liver Zinc Metallothionein by Mercuric Chloride. Mark Martin and Frank O. Brady	72		
Thermal Conductivities Parallel and Perpendicular to Nylon's Extrusion Axis. Louis J. Dorland	77		
Preimplantation Development of t^{w32}/t^{w82} Lethal Mouse Embryos <i>in vitro</i> . Nels H. Granholm, Phyllis M. Johnson and George M. Brenner	86		
Nematodes Associated with Irrigated Corn in South Dakota. James D. Smolik	93		

Abstracts of Papers Presented at the Senior Section	237
Abstracts of Papers Presented at the Collegiate Section	259
Junior Academy Award Winners	271
Papers Published by Title Only	273