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Special lecture

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Takao MOMOSE, Katsuichi MATSUO, Shigeru YAMAZAKI and Atsushi YOKOYAMA

11. Application of "Freeze-Drying" into' aNew Field (No.3)
Degrees of alpha rearrangement and swelling of freeze-dried starch (2)
Takao MOMOSE, Sigeru YAMAZAKI and Kiyoko KUMAI

12. Solute Concentration in the Non-Frozen Liquid during the Frozen Layer Formation in Vertical Tube Freeze-Dryer -Continued Report on a Closed System for Freeze-Drying of Liquid-
Airu YAO, Konomi HARASHIMA and Masakazu KOBAYASHI

Lectures presented at the Seminar of Japanese Society for Research of Freezing and Drying: " Low Temperature and Living Organisms"

1. Structure and Characteristics of Glacier Ecosystems
Shiro KOHSHIMA

2. Aquatic Mosses in Antarctic Lakes
Hiroshi KANDA

3. *Escherichia coli* Mutants Responding Differently to Cold Temperature
Takeshi OHNO

4. Insect Hibernation and Ice Nucleation Active Bacteria in Insects
Jun'ichi KANEKO

5. Temperature Dependency of Gonadotropin Binding Reaction to Its Receptor in Poikilothermic and Homeothermic Vertebrates
Kaoru KUBOKAWA

6. Changes in Heart Function and Hibernation Specific Proteins Identified in Mammalian Hibernators
Noriaki KONDO

7. Mechanism of Chilling Injury in Plants
Shizuo YOSHIDA