

# International Symposium on Dzud

**Date: 13 March 2015 (Fri)**

**Place: Tuushin hotel, Ulaanbaatar, Mongolia**

8:30-9:00      **Registration**

9:00-9:30      **Opening**

*Chaired by* Gomboluudev, P (IMHE, Mongolia)

Tsogt-Ochir, D (Director, NAMEM, Mongolia)

Welcome Remarks

Shinoda, M (Nagoya Univ., Japan)

Introduction to International Symposium on Dzud

9:30-10:00     **Keynote Speech**

*Chaired by* Gomboluudev, P (IMHE)

Natsagdorj, L (IMHE)

Pastoral Animal Husbandry and Dzud

## **Session 1: 2009/2010 Dzud**

*Chaired by* Kurosaki, Y (Tottori Univ., Japan)

10:10-10:30     Erdenetsetseg, B (IMHE)

Overview of the 2009/2010 Dzud and Its Early Warning System in Mongolia

10:30-10:50     Iijima, Y (JAMSTEC, Japan)

Cold Air Formation and Advection over Eurasia during Dzud Events

10:50-11:10     Gomboluudev, P (IMHE)

Climate Change Future Projection Based on AR5 and Climate Extremes over Mongolia

11:10-11:20     Discussion

11:20-13:00     *Lunch Time & Poster Session*

## **Poster Session: Multi-Disaster Studies**

*Chaired by* Nandintsetseg, B (Nagoya Univ. and IMHE)

11:20-13:00

1.     Doljinsuren, M and Natsagdorj, L (IMHE)  
       Climate Related Disasters in Mongolia
2.     Oyunjargal, L (IMHE)  
       The Role of Siberian High in Dzud Events
3.     Davaadorj, A (IMHE)  
       Impact of East Asian Winter Monsoon on Winter Climate over Mongolia
4.     Oyuntuya, Sh (Univ. Life Science, Mongolia)  
       Evaluation of Cold Weather Unsuitable for Livestock Grazing
5.     Ganbat, G (Univ. Agri., Mongolia)  
       Sun's Activity Influence to Loss Livestock in Mongolia

6. Zolzaya, M (IVM, Mongolia)  
Result of Investigation on Rumen Digestive Function of Lamb in Winter and Spring
7. Ariungerel, D and Enkhbayar, S (LEWS, Mongolia)  
The Livestock Early Warning System Technology
8. Serjmyadag, D (NEMA, Mongolia)  
Lessons from the Dzud: Risk Assessment and Humanitarian Assistance
9. Qin Fuying (Normal Univ. Inner Mongolia, China)  
Drought Variability in the Eastern, Middle and Western Inner Mongolia
10. Yongmei (Normal Univ. Inner Mongolia)  
Analyses of Climatic Characteristics of Dust Storms in Mongolia over the Past 10 Years
11. Terigele (Normal Univ. Inner Mongolia) et al.  
Study of the Factor of Climate and Vegetation Coverage on the Influence of Sandstorm  
Frequency of Hunshandake Sandy Land
12. Abulitipu, A (Tottori Univ.)  
Relationship between Rigid and Flexible Roughness Elements and Sand Transport
13. Bao, Y (Normal Univ. Inner Mongolia)  
The Spatiotemporal Variability of Grassland Fire in the Bordering Regions between China  
and Mongolia
14. Suzuki, K (Tsukuba Univ., Japan)  
Evaluation of Protection Imparted by National Park Status Based on Comparison of Steppe  
Vegetation Inside and Outside Hustai National Park, Mongolia
15. Bayarbat, I (Univ. Life Science) et al.  
Influence of Biochar to the Improving Degraded Soils and Mitigating Climate Change
16. Ganbold, Ya (IVM)  
“AKRITRACT”: Row Material-Grasshopper
17. Tsatsral, B (IMHE) et al.  
The Relationship between Meteorological Parameters and Air Pollution in Ulaanbaatar,  
Mongolia
18. Bat-Oyun, Ts (Tottori Univ.) et al.  
Airag (Fermented Mare’s Milk) Production in Mongolia: A Nationwide Survey
19. Ishii, S (Rakuno Gakuen Univ., Japan) and Morinaga, Y (Meiji Univ., Japan)  
Properties of Kumiss (airag) of the Mongolian Nomads

## **Session 2: Dzud Impacts**

*Chaired by* Onishi, K (Tottori Univ.)

- |             |                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:00-13:20 | Nandintsetseg, B (Nagoya Univ. and IMHE)<br>Dzud Impacts, Consequences and Responses: An Overview                                                                |
| 13:20-13:40 | Buyantogtokh, Ch (IVM)<br>Implications of Dzud Disaster in Mongolian Livestock                                                                                   |
| 13:40-14:00 | Shimada, A (Azabu Univ., Japan)<br>Possible Factors Responsible for the Increased Susceptibility to Diseases during Dzud in the<br>Livestock Animals in Mongolia |

14:00-14:20 Otani, S (Tottori Univ.)  
The Public Health Risks Related Dzud by Assessing Livestock Loss and Foodstuff Consumption

14:20-14:30 Discussion

14:30-14:40 *Break Time*

### **Session 3: Dzud Management**

*Chaired by* Batbuyn, B (CNPS, Mongolia)

14:40-15:00 Ganhuyag, P (MoFALI, Mongolia)  
Recent Condition of Mongolian Animal Husbandry and Its Future Risk

15:00-15:20 Elbegjargal, N and Bulgan, D (EIC, Mongolia)  
Drought and Dzud Early Warning System

15:20-15:40 Tachiiri, K (JAMSTEC)  
Towards Dzud Risk Assessment by Integration of Social and Natural Factors

15:40-16:00 Sternberg, T (Oxford Univ., UK)  
How Can We Apply Disaster Science to Management Policy?

16:00-16:10 Discussion

16:10-16:30 *Break Time*

### **Comments by Advisory Board and Panel Discussion**

*Chaired by* Shinoda, M (Nagoya Univ.)

16:30-18:00

*Commenters* Suzuki, M (Univ. Tokyo, Japan)  
Batjargal, Z (OPUNUA-UNEP, Mongolia)  
Goulden, C.E (Academy of Natural Sciences, Drexel Univ., USA)  
Parlee, B (Alberta Univ., Canada)

*Panelists* Gomboluudev, P (IMHE)  
Nandintsetseg, B (Nagoya Univ. and IMHE)  
Shimada, A (Azabu Univ. Japan)  
Sternberg, T (Oxford Univ.)  
Morinaga, Y (Meiji Univ.)

18:00-21:00 **Banquet**

**Organizing Committee** Shinoda, M (Nagoya Univ.)  
Nandintsetseg, B (Nagoya Univ. and IMHE)  
Gomboluudev, P (IMHE)  
Erdenetsetseg, B (IMHE)  
Sternberg, T (Oxford Univ.)  
Suzuki, K (Tsukuba Univ.)

**Co-Sponsored by** Nagoya Univ. (Japan)  
IMHE (Mongolia)  
Tottori Univ. (Japan)  
Meiji Univ. (Japan)  
Oxford Univ. (UK)

**NOTE:** *Abbreviations for Institutes*

NAMEM: National Agency for Meteorology and Environmental Monitoring, Mongolia

IMHE: Institute of Meteorology, Hydrology and Environment, Mongolia

MoFALI: Ministry of Food, Agriculture and Light Industry, Mongolia

NMUMS: National Medical University of Medical Sciences, Mongolia

IVM: Institute of Veterinary Medicine, Mongolia

JAMSTEC: Japan Agency for Marine-Earth Science and Technology

EIC: Environmental Information Center, Mongolia

OPUNUA-UNEP: Office of the President of United Nations Environment Assembly of UNEP at the  
Ministry of Environment and Green Development, Mongolia

CNPS: Center for Nomadic Pastoralism Studies, Mongolia

LEWS: Livestock Early Warning System Project, Mongolia