

# CAES<sup>1</sup>-workshop 'Reindeer 2000'

CAES-workshop 'Reindeer 2000', 11 and 13 August 1999, Tromsø, Norway

CAES coordinators: Ekaterina Ruth & Päivi Soppela.

Organizing committee: Päivi Soppela, Ekaterina Ruth, Walter Ruth, Bruce Forbes, Ulla Heiskari, Harri Norberg & Tarja Porsanger.

## Preface

A group of PhD students, post-doctoral scientists and senior scientists gathered together in Tromsø, August 1999 for the 1st CAES Workshop 'Reindeer 2000', in conjunction with the 10th Arctic Ungulate Conference (AUC). The purpose of the workshop was to stimulate the interdisciplinary approach and communication in studies relating to reindeer and reindeer husbandry.

The workshop got its idea in discussions of many scientists working in research related to reindeer husbandry. A holistic approach and dialogue between discipline borders was seen necessary to better understand the many challenges of today's reindeer husbandry. This workshop aimed to increase understanding and partnership particularly between young natural and social scientists, and to foster closer interaction across the borders, especially between the Nordic countries, North America and Russia.

During the workshop the invited key-note speakers presented how they envisioned an interdisciplinary approach to research being developed in their fields and disciplines. The students' presentations provided an overview of their proposed or ongoing studies. As a whole, the introductions of the key-note speakers and presentations of the students served a basis for the session where the theme 'interdisciplinary' was discussed and future activities were planned. The workshop turned out fruitful and stimulated lively discussions. The number of student presentations was 25 and that of keynote lecturers and organisers was 8. Total number of participants was 46, including participants from the AUC conference.

In specific, the workshop 'Reindeer 2000' was a successful step and get-together for the international course 'Reindeer as a keystone species in the north: Biological, cultural and socio-economic aspects' that was held in the northern Fennoscandia and Kola Peninsula in September 2000 (The Proceedings are published in the Arctic Centre Reports 38, 2002). During the workshop, important contacts were established and the course planning was started.

This issue of *Rangifer* contains four full-length refereed papers that are based on the student presentations in the workshop. The paper of Lydia Heikkilä features challenges of contemporary reindeer herding in a Sami area in Finland, Dessimslav Sabev in tundra camps in the Kola Peninsula, and Greg Finstad in the Seward Peninsula, Alaska. The papers will show differences as well as similarities in the preconditions of reindeer herding in these areas and their particular concerns. In the fourth paper, Anne Kendrick presents considerations of shared decision-making of natural resources between 'local resource users' and 'state resource managers' in caribou co-management – a topical issue also in Nordic reindeer husbandry today.

The present issue also includes the short communication of Yana Kuzmina and the extended abstracts of Alla Kolesnikova and Ekaterina Kuljugina. The other abstracts of the workshop presentations appeared in the Scientific and Social Programme - Abstracts of the 10th AUC, the section CAES Workshop, *Rangifer* Report No. 4, 1999: 103-114.

The workshop was organised by CAES, and supported by NorFA. Warmest thanks to all the participants of the workshop as well as authors and referees of this issue.

Päivi Soppela

---

<sup>1</sup> Circumpolar PhD Network in Arctic Environmental Studies.

# Program CAES-workshop 'Reindeer 2000', Tromsø, Norway 1999

Wednesday, 11th August 18:00 - 22:00

## Session 1      Chairs: W. Ruth & P. Soppela

### *Opening lectures:*

"Introduction of the CAES Network". Ekaterina Ruth, Department of Environmental Planning and Design, Luleå University of Technology, Sweden.

"Introduction of the idea of the present Workshop 'Reindeer 2000'". Päivi Soppela, Arctic Centre, University of Lapland, Finland.

### *Key note lecture 1:*

"Resolving complexity in reindeer and caribou grazing systems. The role of interdisciplinary research". David Klein, Institute of Arctic Biology, University of Alaska, Fairbanks, USA.

### *Students' presentations:*

Sari Stark (Finland) - Reindeer grazing and soil carbon and nitrogen dynamics in northern-boreal and oroactic ecosystems.

Ekaterina Kuljugina (Russia) - Dynamics of aeolian sands vegetation cover of tundra zone.

Ulla Heiskari (Finland) - Digestive physiology and nutrition of reindeer with special interest in winter feeding.

Anna Nilsson (Sweden) - Physiological characteristics of reindeer in relation to nutritional status and transition from pasture to feeding.

Pål Storeheier (Norway) - Factors influencing the in vitro digestibility of lichens in reindeer.

Erik Ågren (Sweden) - Early reindeer calf mortality.

## Session 2

### *Key note lecture 2:*

"Socio-economic changes in Sami homeland - Renewing traditional knowledge systems". Jorunn Eikjok, University of Tromsø, Norway.

### *Students' presentations:*

Otto Habeck (UK) - Reindeer herding as a survival strategy in the north of the Russian Federation.

Dessislav Sabev (Bulgaria) - Reindeer herding after the Sovhoz: a tundra-centred field-research in the Kola Peninsula.

Lydia Heikkilä (Finland) - The socio-economic significance of the price of reindeer meat - representation of money in the reindeer herding Sami society.

Tarja Porsanger (Finland) - Socio-economic development and reindeer herding in northern Finnish Lapland.

Nicholas Gunslay (Finland) - The effects of the changes within reindeer herding regarding Sami identity and unity.

### *Summary*

Friday, 13th August 09:00 - 18:00

## Session 3      Chair: W. Ruth

### *Key note lecture 3:*

"The environmental and economical effects of contradiction between of reindeer-husbandry and industry development on the European North-East: The Experience of interdisciplinary research". Tatiana Evdokimova, Institute of Biology, Komi Science Centre, Syktyvkar, Russia.

*Students' presentations:*

- Nikolaj Polezhaev (Russia) - Using geographical information systems (GIS) for reindeer range mapping.  
Yana Kuzmina (Russia) - Reindeer impact upon the hydrobiological regime of the northern water bodies.  
Alla Kolesnikova (Russia) - The relations of reindeer with Coleoptera of Bolchezemelskaya tundra.  
Sergej Mishenev (Russia) - Veterinary and ecological aspects of reindeer breeding in northern Russia.  
Elena Romanova (Russia) - History and prospective use of reindeer genetics in the Russian North.  
Lars Rønnegård (Sweden) - Selection strategies in reindeer management.  
Harri Norberg (Finland) - Reindeer calf mortality as a key factor for population management and productivity in reindeer husbandry.  
Tatiana Ermashova (Russia) - The effect of using non-traditional foods in the diet of agricultural animals.

## Session 4

*Key note lecture 4:*

"Hunting/herding relationship to reindeer: some social and cultural implications". Yvon Csonka, Prehistory Dept., University of Neuchatel, Switzerland.

*Students' presentations:*

- Anne Kendrick (Canada) - Complementing links: the exchange between western science and traditional ecological knowledge in caribou co-management structures.  
Greg Finstad (USA) - Impact of the range expansion of the Western Arctic Caribou Herd onto traditional reindeer ranges of the Seward Peninsula, Alaska.  
Carita Bergman (Canada) - Caribou movement as a correlated random walk.  
Amund Høyemork (Norway) - Antler development in reindeer in relation to age and sex.  
Raphaela Stimmelmayer (USA) - Meal patterns in reindeer ecological implications.  
Michael Ferguson (Canada) - Understanding data and information from different cultural knowledge systems.

*Lecture:*

"Introduction of the provisional programme of the Course 'Reindeer as a keystone species in the North: biological, cultural and socio-economic aspects' which due to be held in Northern Finnish Lapland, Finnmark and Kola Peninsula in 2000". Päivi Soppela, Arctic Centre, University of Lapland, Finland.

*Key note lecture 5:*

"Questions of interdisciplinarity in Arctic environmental studies". Walter Ruth, Luleå University of Technology.

Discussions and planning sessions in working groups chaired by lecturers. Organising chair: Walter Ruth, Luleå University of Technology, Sweden.

Results of the working groups. Chairs: P. Soppela, W. Ruth & B. Forbes.

*Summary*