

Foreword

The Fifth Nordic Reindeer Scientist's Meeting, organised by the Nordic Council for Reindeer Research, was held at Oulu, Finland, 30 October – 2 November 1989 and was attended by 62 delegates.

The principal themes of the meeting were 'Reindeer Feeds and Feeding' and 'The Economic and Ecological Carrying Capacity of Reindeer Husbandry'. The first of these two themes was selected to draw together and review many years' experience in feeds and feeding from the reindeer industries in Norway, Sweden and Finland. There is an acute need for information on all aspects of supplementary feeding, especially in areas contaminated as a result of the accident at the Chernobyl atomic power station. The second theme deals with the future of reindeer husbandry itself and covers both today's situation and tomorrow's development. Few forms of agriculture can be more closely linked to natural ecological processes than reindeer husbandry and thorough understanding of these processes is essential to secure the future of the industry. There were also a large number of presentations on topics outside the main themes. Several of these show the extent to which we still live under the shadow of the Chernobyl accident.

All abstracts and papers are published here as they were received and with only minor editing.

The Nordic Council for Reindeer Research extends thanks to the City of Oulu for a generous reception and to the firms Kesko, Medipolar and Poropolar OY for their substantial contribution to the social side of the meeting.

Forord

Det 5. Nordiske reinforskermøtet i regi av Nordisk Organ for Reinforskning (NOR) ble holdt i Oulu, Finland i dagene 30. oktober – 2. november, 1989 med 62 deltagere.

Som hovedtema ble valgt: «Fôring av rein» og «Økonomisk og økologisk bærekraft i reinnæringen». Det første tema ble valgt fordi man lenge har følt at tiden var inne til å samle alle praktiske erfaringer som gjennom mange år har vært gjort på dette området og at Tsjernobylulykken har gjort fôring av rein meget aktuell i nedfallsrammede områder. Det annet tema bringer oss inn på livet av fremtidens reindrift. Det er behov for å vite hvor vi står og hvor vi akter oss hen. Knapt noen annen fastlandsnæring er dertil mere basert på økologisk forståelse enn reinnæringen. Denne både kan og bør ligge i forkant på dette felt. Forøvrig er det en lang rekke presentasjoner utenom hovedtemaene. Noen av disse presentasjoner viser at vi fremdeles lever i skyggen av Tsjernobyl-katastrofen.

Alle foredrag eller sammendrag er fra forfatternes egne manuskripter og er bare undergitt redaksjonell vurdering.

Nordisk Organ for Reinforskning retter stor takk til Uleåborg Stad for generøs mottagelse samt til firmaene Kesko, Medipolar og Poropolar OY for sine gode bidrag til møtets sosiale del.

Program		Side
Foredrag – <i>Oral presentations:</i>		<i>Page</i>
<i>Tirsdag 31. oktober</i>		
0900 Åpning av møtet v/NOR's formann, Bengt Westerling		
0915 Gustaf Åhman: Utfodring av renar. Inledning.		
0945 Harald Sletten: Foring av rein. Norske erfaringer.....	10	
1000 Mauri Nieminen: Utfodring av renar. Finska erfarenheter.		
1035 Tove Aagnes & Svein D. Mathiesen: Bacterial fermentation of lichen and ruminal responses to starvation in Norwegian reindeer	13	
1045 Wenche Sørmo & Svein. D. Mathiesen: Adherent bacteria in the small intestine of reindeer	13	
1130 Peter Waller (Invited speaker): Resistance to chemotherapy. What are the risks for the reindeer industry?	14	
1330 Nicholas J. Tyler: Short-term behavioural responses of Svalbard reindeer to direct provocation by a snowscooter	18	
1350 H. Tømmervik, B. E. Johansen & A. N. Eira: Mapping the air pollution impact to reindeer range areas in Pasvik, Northern Norway using satellite imageries	19	
1430 «Rangifer's» oppgave som publiseringsmulighet for nordiske reinforskere. Redegjørelse av Sven Skjenneberg. Diskusjon.		
1500–1630 Postersession.		
<i>Onsdag 1. november</i>		
0930 Dag Lenvik: Flokkstrukturering. Tiltak for lønnsom og ressurstilpasset reindrift	21	
1000 Timo Helle & Ilpo Kojola: Populationsdynamik inom finska tamrenar.		
1110 Olof Eriksson & Tuomo Raunistola: Markbearbetning och renbete. Information om pågående undersökningar	36	
1245–1500 Omvisning på Oulu Universitetet.		
1500–1700 Postersession.		
<i>Torsdag 2. november</i>		
0900 Postersession.		
1000 Kristina Rissanen: Cesiumhalterna i renens foder innan och efter Chernobyl.		
1025 Tua Rahola & Matti Suomela: Radiocesium i renkött – ökad stråldos för samebefolkningen	38	
1035 Knut Hove, Øyvind Pedersen, Hans Staaland & Torstein Garmo: Effects of sustained release boli with preussian blue on the radiocesium content in reindeer under practical conditions.		
1130 Hans Staaland, Torstein Garmo, Knut Hove & Øyvind Pedersen: Mushrooms: An important route of radiocesium transfer from soil to grazing reindeer	37	
1140 Birgitta Åhman: Bentonit och zeolit som Cesium-bindare i foder till ren – erfarenheter från Sverige	41	

Eloranta, E., Nieminen, M. & Soppela, P.: Reindeer milk	47
Eloranta, E., Timisjärvi, J., Leppäläluoto, J. & Nieminen, M.: Progesterone secretion in reindeer	49
Heiskari, U. & Nieminen, M.: Voluntary feed intake of reindeer in relation to ambient temperature	50
Johansen, B. E. & Tømmervik, H.: Mapping winter pastures for reindeer in Karasjok, Northern Norway, using LANDSAT 5-TM data	51
Nenonen, S. & Nieminen, M.: The inventory of reindeer winter pastures in Muotkatunturi co-operative with satellite imageries and colour photographs	52
Nieminen, M., Heiskari, U. & Soveri, T.: Use of urine samples collected from bladder and snow to indicate condition of semi-domesticated reindeer	53
Nieminen, M., Heiskari, U. & Timisjärvi, J.: Carcass and internal organ weights in semi-domesticated reindeer	55
Nieminen, M. & Rantataaro, M.: Mineral and trace element contents of lichens in Finnish reindeer herding area	56
Nieminen, M. & Soppela, P.: Nutritional status and fatty acid composition of bone marrow in semi-domesticated reindeer	57
Nieminen, M., Tanhuanpää, E. & Vähä-Vahe, T.: Detomidine immobilization in wild and semi-domesticated reindeer	58
Nikander, S. & Rahko, T.: Studies on occurrence of lung worm infection in the reindeer in Finnish Eastern Lapland	59
Ojutkangas, V., Eloranta, E., Leppäläluoto, J., Timisjärvi, J. & Nieminen, M.: Serum levels of TSH and thyroid hormones after TRH administration in reindeer	60
Rognmo, P. & Bye, K.: Palatability of two artificial feeds for reindeer	61
Soppela, P. & Nieminen, M.: Adipose tissue fatty acid composition from different body sites in reindeer calves during autumn and spring	63
Soveri, T., Nikander, S. & Nieminen, M.: Efficiency of parenteral and oral ivermectin treatment on parasites in reindeer	64
Tyler, N. J. C., Jalanka, H., Hotvedt, R., Blix, A.S. & Sørensen, D. R.: Immobilization of three sub-species of reindeer (<i>Rangifer tarandus</i>) with medetomidine and medetomidine-ketamine and reversal of immobilization with atipamezole	65
Tyler, N. J. C.: Effects of age and reproductive status on body composition in Svalbard reindeer	69
Åhman, B.: Transfer of radiocaesium from lichen to reindeer	67
 Bokanmeldelse:	73