

The 10th Nordic Conference on Reindeer Research, Guovdageaidnu – Kautokeino, Norway, 13-15 March, 1998

NOR arranged the tenth Nordic research conference on reindeer and its husbandry in Kautokeino, Finnmark, Norway, with the Saami College as local co-organizer. Programme committee consisted of *Öje Danell*, Sweden, *Sven Nikander*, Finland, *Chris Cuyler*, Greenland, *Annfinn Pavall*, Norway and NOR's secretary *Rolf Egil Haugerud*. Main secretariat was NOR's secretary with *Anne Berit Bæbr*, Saami College, as local contact person. The conference was arranged 13-15 March, 1998 with about 160 participants.

The conference was aimed at bringing together people from reindeer husbandry, management/administration and research to promote understanding and co-operation. The main theme was Reindeer husbandry in the Nordic countries, totally 20 invited lectures were given. The poster presentation included 45 posters within any topic. The conference languages were Scandinavian (Norwegian/Swedish) and Finnish. For the first time simultaneous translation was used in a NOR-meeting to improve both the communication and the comprehension. A programme and abstract book was published for the conference, including abstracts in English. (*Rangifer* Report No. 2, 1998). Also proceedings of the meeting will be issued with the lectures as they were given (*Rangifer* Report No. 3).

The conference was opened by the director of the Saami College, *Máret Á. Gubttor*, and NOR's chairman *Sven Nikander*.

Lectures 1st day. Session leader *Sven Nikander*, NOR.

Ole K. Sara, special adviser, Norwegian Reindeer Husbandry Administration: Utviklingstrekk - samarbeide over landegrensene (Outlines of development - cooperation across the national borders).

Johan Mathis Turi, reindeer owner and chairman in Association of World Reindeer Herder (WRH): Circumpolar reindrift (Circumpolar reindeer husbandry).

Berit Marie Jonsson, reindeer owner: Kvinnor i modern renkötsel. Historikk, status och framtid (Women in Reindeer Husbandry-history, status and future).

Lectures 2nd day. Session leader *Per Mikael Utsi*, Swedish Saami Parliament.

The reindeer husbandry in Finland.

Jouni Filppa, director, Reindeer Owners' Association: Organiseringen av den finska renkötseln (Organization of the reindeer husbandry in Finland).

Mauri Nieminen, research leader, Finnish Reindeer Research Station: Ekonomisk och distriktsmessig betydelse (Economical importance of Finnish reindeer industry).

Juhani Magga, reindeer owner: Samisk renkötsel, vardag och visjoner (Saami reindeer husbandry: everyday life and visions).

Osmo Säkkinen, reindeer owner: Finsk renkötsel, vardag och visjoner (Finnish reindeer husbandry: everyday life and visions).

Mauri Nieminen, research leader, Finnish Reindeer Research Station: Forskning och forskningsbehov (Finnish reindeer research and needs for further research).

The reindeer husbandry in Sweden.

Per-Gustav Idivuoma, reindeer owner/Sámiid Riikka-searvi-SSR: Rennäringen inför milleniumsskiftet 2 000 (Reindeer husbandry at the year 2 000).

Bror Saitton, professional adviser, Saami Parliament in Sweden: Rennäringen i Sverige (Reindeer husbandry in Sweden).

Öje Danell, professor in reindeer husbandry, Swedish University of Agricultural Sciences: Renskötsel-forskning i Sverige (Reindeer husbandry research in Sweden).

The reindeer husbandry in Norway.

John Henrik Eira, chairman, Reindeer Owners' Association in Norway: Reindriftsspørsmål i Norge (Issues of reindeer husbandry in Norway).

Isak Mathis O. Hætta, council member of the Saami Parliament in Norway: Sametinget og reindriftpolitikken (Saami Parliament and the politics of reindeer husbandry).

Roger Pedersen, adviser, Norwegian Reindeer Husbandry Administration: Reindriften og dens forvaltning (Management of the reindeer husbandry).

The reindeer husbandry in Greenland.

Christine Cuyler, researcher, Greenland Institute of Natural Resources: Reindrift i Grønland (Reindeer herding in Greenland).

Lectures 3rd day. Session leader *Svein D. Mathiesen*, Norwegian College of Veterinary Medicine.
Mikkel Nils Sara, lecturer, Saami College: Praktisk reinbeitebruk - tradisjonelle kunnskaper (Practical reindeer husbandry - traditional knowledge).
Eldar Gaare, researcher, Norwegian Institute of Nature Research (NINA): Kan vi beregne hvor mange rein beitene tåler? (Are we able to assess carrying capacity of reindeer pastures?)
Jouko Kumpula, researcher, Finnish Reindeer Research Station: Mitä tarvitaan ekologisesti ja taloudellisesti kestävään porotalouteen -suomalainen näkökulma (What is needed for ecologically and economically stable reindeer husbandry - Finnish point of view).
Anders Isak Oskal, reindeer owner: Tradisjonelle vurderinger av livdyr (Traditional selection of animals for breeding).
Öje Danell, professor in reindeer husbandry, Swedish University of Agricultural Sciences: Optimal produktion (Optimal production).

List of posters.

Forvaltning/Management.

Ekaterina Ruth-Balaganskaya, Päivi Soppela & Bruce Forbes: The circumpolar arctic natural science Ph.D. network.

Mauri Nieminen, Sari Kadenius, K. Tikkanen & H. Törmänen: Poronliha ja sen tuotanto Suomessa! Reindeer meat and its production in Finland.

Reindriftsforvaltningen, Alta: Reindriften i Norge - Organisering, ressursforhold og økonomi! Reindeer husbandry in Norway.

Samfunnsvitenskap/Social science.

Thomas V. Hahn, Andrew K. Dragun & Daniel W. Bromley: The institutional foundation and justification of indigenous Saami rights in Sweden/Svenska (fjäll-) samers äganderätt till mark.

Helena Sandström: Vems intresse skall tilgodoses - privata markägare eller renägande samer?! Whose interest will be provided for - private landowner or reindeerowner

Ann-Marie Karlsson: Beslutsfattande under pastoral förhållanden med särskild inriktning på renskötsel.

Anders J. H. Eira: Fra individuell produksjonsorientering til kollektiv markedstilpasning - valg mellom kontraksjons- eller ekspansjonsstrategi?

Anders J. H. Eira: Hvorfor går reintallet opp? Reintallsdrivende mekanismer i næringen.

Berit Inga: Traditionella kunskaper om nyttjandet av naturressurser i fjällområden! Traditional knowledge on natural resources use in the Mountain region.

Olof Eriksson, Erik Persson & Tuomo Raunistola: Sambruk av taigaen. Renskötselplaner för samebyars kärnområden! Taigan yhteiskäyttöä. Porotaloudelle sopeutettu alueellinen metsänhoitosuunnitelma lapinkylien ydinalueille! Co-management of the taiga. Reindeer management tailored forestry plans for principal foraging areas in Lapp communities.

Rein generelt/Reindeer generally.

Hallvard Gjøstein & Øystein Holand: Simlens dominans og dets innvirkning på kalvingstidspunkt.

Martin Smith, Øystein Holand, Knut Røed, Jouko Kumpula, Veijo Tervonen & Mauri Nieminen: Skifter simlene borem gjennom brunsten?! Movements of female semi-domestic reindeer during the breeding period related to mate choice.

Knut Røed, Øystein Holand, Jouko Kumpula, Mauri Nieminen & Martin Smith: Bukkenes reproduksjonsuksess i reindriften.

Helene Ween, Erik Ropstad, Hannele Säkkinen & Dag Lenvik: Drektighetsstatus hos reinsdyrkalver om vinteren! Pregnancy status of reindeer calves in winter.

Kathrin C. Hofmann & Mauri Nieminen: Feiing av bast hos simler (Rangifer tarandus tarandus) i forbindelse med reproduksjon! Velvet shedding in female reindeer (Rangifer tarandus tarandus) in relation to reproductive activity.

Lars Rönnegård: Gen flöde och populationsmodeller! Modelling gene flow and population dynamics.

Bob van Oort, Astrid Vik-Strønen, B. M. Barnes, Irene Tobler, Karl-Arne Stokkan & N. J. C. Tyler: Activity loggers for reindeer.

Josephine Nymand: Range capacity and body condition of West Greenland herbivores.

P. Anders Mårell & Annika Hofgaard: Renens rumsliga och tidsmässiga sommarbetesmönster i relation til habitatförändringar! Spatial and temporal summer grazing patterns by reindeer in relation to habitat change.

Hans Roar Christiansen, Ole J. Johansen & Nicholas J. C. Tyler: Female reindeer grow fatter in winter.

Ernæring-beite/Nutrition-pasture.

Alfred Colpaert, Timo Kumpula, Jouko Kumpula & Mauri Nieminen: Porojen kesälaidunten kartointu Landsat 5 TM satelliittikuvien avulla! Mapping reindeer summer pastures using Landsat 5 TM images.

Ann Marie Odasz-Albrigtsen & Hanne Edvardsen: *Winter pastures on Finnmarksvidda Today and Yesterday/Dälveguobtumat Finnmárkkoduoddaris Otne ja ikte.*

Kari Anne Bråthen & Christina Wegener: *Reinens sommerbeiter: varierer kvaliteten med reindens tetthet?/Reindeer summer pastures: does the quality depend on reindeer density?*

Nicholas J. C. Tyler: *Reindeer pastures at disequilibrium.*

Svein Morten Eilertsen, Ivar Scheldrup & Svein D. Mathisen: *Vårbeiting med rein på neilagt innmark/Grazing on old meadows with reindeer in spring.*

Harri Norberg & Svein D. Mathiesen: *Korkealaatuinen timoteisäilörehu porojen lisäruokinnassa/High quality timothy silage (Phleum pratense) as supplemental feed for reindeer*

Øystein Holand, Barbro Dahlberg & Hans Staaland: *Kan fragmentanalyser av reinmøkk gi oss svar på reinens vinterdiett? (Reindeer faeces and winter diet) (In Norwegian).*

Jouko Kumpula & Päivi Parikka: *Porojen talvilaitumilla esiintyvä homeongelma/Mould problem on reindeer winter pastures.*

Anna Nilsson: *Fysiologiska särdrag hos ren i förhållande till näringsstatus och omställning från bete till utfodring/Physiological characteristics of reindeer in relation to nutritional status and transition from pasture to feeding.*

Ulla Heiskari, Maijala, V., Syrjala-Qvist, L. & Nieminen, M: *Adaptation of digestive system in reindeer to annual winter feeding.*

Leiv-Tore Kårstad, Jorid Folland & Svein D. Mathisen: *Slikkestein som krisefor til rein om vinteren/Multinutrient block as supplement to reindeer in winter.*

Helse og veterinærmedisin/Health and veterinary medicine.

Monica A. Olsen, Øyvind E. Haga & Svein D. Mathiesen: *Vomsvikt som følge av kriseforing/Rumen failure induced during emergency feeding.*

Birgitta Åhman, Eija Eloranta, Sanna Sainmaa & Anna Nilsson: *Förekomst av blöt buk hos renar/The wet belly syndrome in reindeer*

Svein Mathiesen, Marit A. Vader, Vigdis B. Rædergård, Wenche Sørmo, Øyvind Haga, Nicholas J. C. Tyler & R. R. Hofmann:

Sesongvariasjon i bladmagestruktur hos to underarter av reinsdyr/Seasonal changes of the omasal structures in two subspecies of Rangifer.

Terje D. Josefsen, Monica A. Olsen, Tove H. Aagnes Utsi & Svein D. Mathiesen: *Kasuistikk: Bilateralt symmetriske tanncyster i underkjeven hos en reinkalv/A case report: Bilateral symmetric tooth-bearing bone cysts in the mandible of a reindeer calf*

Minna Nylund, Varpu Hirvelä-Koski & Harri Norberg: *Pasteurella multocida verenmyrkytys poronvasassa talvella - tapausselostus/Pasteurella multocida septicemia in reindeer calf during winter - a case report.*

Hannele Säkkinen, Erik Ropstad, Øystein Holand, Knut Hove & Eija Eloranta: *A field study in Finnmark: foetal loss and low plasma proteins in spring.*

Eva Wiklund, P. J. Goddard, Claes Reh binder & Gunnar Malmfors: *Mikrobiologisk kvalitet och pH-värden i kött och stressmetaboliter i blod från transporterade rentjurar/Ultimate pH-values and microbiological condition of meat and stress metabolites in blood of transported reindeer bulls.*

Antti Oksanen, Mauri Nieminen, Kjetil Åsbakk & Harri Norberg: *Tarharuokinta tartuttaa poroille toksoplasmoosia/Fôring i gjerde øker toksoplasma-prevalens hos rein/Toxoplasma gondii in reindeer associated with corral feeding.*

Marit Holm & Svein D. Mathisen: *Veterinærens fremtidige rolle i den nomadiske reindrifta/Future aspects of veterinary medicine in the nomadic reindeer herding.*

Eli Ristin Nergård: *Fremtidig reinveterinær!?!/Future reindeer veterinarian!?!?*

Arne C. Nilssen, Willy Hemmingsen & Rolf Egil Haugerud: *Er det umulig å utrydde reinbremsen fra øyer i Finnmark?!/Is it impossible to eradicate the reindeer oestrids on islands in Finnmark, northern Norway.*

Andre emner/Other themes.

Kjetil Åsbakk, Arne C. Nilssen, Rolf E. Haugerud, Heidi R. Bendiksen, Willy Hemmingsen & Antti Oksanen: *Ivermectin i avfôring fra rein/Ivermectin in reindeer dung.*

Heli Lindeberg & Maija Valtonen: *Ubanalaisten eläinlajien ex-situ säilyttäminen sukusolujen ja alkioiden kylmäsäilytyksen avulla/Ex-situ preservation of endangered species as frozen gametes and embryos.*

Marjonniemi, M., E. Mäntysalo & M. Nieminen: *Properties of reindeer calf leather.*