

International conference

# Arctic roads

Operating, maintaining and building roads in a climatically challenging environment

## Friday, 2 March

12.30 - 17.00	Arrival, registration and lodging
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## Saturday, 3 March

### Opening session

09.00 - 09.15	Welcome <i>Hermann Berthelsen, Mayor, Sisimiut, Greenland</i> <i>Jokum Møller, Headmaster of Sanaartormemik Ilinniarfik, Sisimiut, Greenland</i>
09.15 - 09.25	Opening of the Arctic Roads conference <i>By Siverth K. Heilmann, Minister of Industry, Labour, Vocational training, Housing, Infrastructure, Minerals and Petroleum, Greenland Home Rule Government</i>
09.25 - 10.00	The Roadex network <i>Laust Løgstrup and Ron Munro, Roadex, Greenland and Scotland</i>

### Session 1: Traffic planning, mapping and GIS in road construction

10.00 - 10.20	Road considerations by the Greenland Home Rule <i>Ruben Svendsen, Home Rule administration, Greenland</i>
10.20 - 10.40	Economic analysis of Arctic Roads <i>Laust Løgstrup, Municipality of Sisimiut, Greenland</i>
10.40 - 11.00	Coffee break
11.00 - 11.30	South Greenland turbocharged <i>Peter Barfoed, Greenland</i>
11.30 - 12.00	Gravel roads in northern Canada <i>Donaldson MacLeod, Public Works, Canada</i>
12.00 - 12.30	Survey and Mapping in road construction <i>Svend Elgaard, Vejdirektoratet, Denmark</i>
12.30 - 13.30	Lunch

### Excursion

13.30 - 16.30	Tour of Sisimiut <i>Georadar demonstration, The Innovation House, The Low Energy House</i>
16.30 - 18.00	Café Sanilin, "ice breaker", informal discussion over a cup of coffee or a glass of wine

## Sunday, 4 March

### Session 2: Road construction in the Arctic – existing and new methods, case stories

09.30 – 10.00	Road construction in Northern Iceland and comparison to South Greenland with respect to landscape and climate <i>Guðmundur Heiðreksson, Vegagerdin, Iceland</i>
10.00 – 10.30	Experience of construction and operation of roads in the Komi Republic <i>Sergey Latanov, Road Agency of Komi Republic, Russia</i>
10.30 – 11.00	Roads constructed over Peat <i>Ron Munro, ROADEX, Scotland</i>
11.00 – 11.30	Coffee break
11.30 – 12.00	Engineering geological and geophysical investigations for road construction in areas with permafrost in the municipality of Sisimiut, West Greenland <i>Thomas Ingeman-Nielsen, ARTEK, Denmark</i>
12.00 – 12.30	Road activities in Nuuk – summer and winter – Road management, maintenance, planning and design <i>Hans Ulrik Skifte, Nuuk Kommune, Greenland</i>
12.30 – 13.30	Lunch

### Session 3: Maintenance and operation of existing roads

13.30 – 14.00	Maintenance and operation of low traffic roads in Northern Iceland <i>Gísli Eiríksson, Vegagerdin, Iceland</i>
14.00 – 14.30	Permanent deformation <i>Pauli Kolisoja, ROADEX, Finland</i>
14.30 – 15.00	Managing spring thaw weakening <i>Timo Saarenketo, ROADEX, Finland</i>
15.00 – 15.30	Coffee break
15.30 – 16.00	Drainage on low traffic volume roads <i>Timo Saarenketo, ROADEX, Finland</i>
16.00 – 16.30	New material treatment techniques <i>Pauli Kolisoja, ROADEX, Finland</i>
16.30 – 17.00	Tools for focussing actions <i>Timo Saarenketo, ROADEX, Finland</i>
17.00 – 18.00	Café Sanilin, “ice breaker”, informal discussion over a cup of coffee or a glass of wine

## Monday, 5 March

### Session 4: Climatic challenges

09.30 - 10.00	Construction on permafrost <i>Donaldson MacLeod, Public Works, Canada</i>
10.00 - 10.30	Roads in Region North, Norway and consequences of climate change. <i>Vidar Engmo, Norwegian Public Road Administration, Region North, Norway</i>
10.30 - 11.00	Adaptation of Nunavik's roads and airfields to climate warming <i>Guy Doré, Laval Université, Canada</i>
11.00 - 11.30	Coffee break
11.30 - 12.00	Deterioration of Permafrost in Thule - Implication for Road Construction in Greenland <i>Inooraq Brandt, ARTEK, Greenland</i>
12.00 - 12.30	Annual variations of the frost table in Kangerlussuaq Airport, western Greenland <i>Anders Stuhr Jørgensen, ARTEK, Denmark</i>
12.30 - 13.30	Lunch

### Session 5: Environmental considerations

13.30 - 14.00	Environmental aspects of road construction in the Sisimiut - Kangerlussuaq area <i>Sesse Bang, Rambøll Danmark A/S, Denmark</i>
14.00 - 14.30	Environmental Guidelines & Checklist <i>Johan Ullberg, ROADEX, Sweden</i>
14.30 - 15.00	Coffee break

### Session 6: Forestry

15.00 - 15.30	A forestry perspective on low volume road management in Scotland <i>Frank MacCulloch, Forest Enterprise, Scotland</i>
15.30 - 16.00	A forestry perspective on low volume road management in Sweden <i>Fredrik Ekedahl, Swedish Forestry Agency, Sweden</i>

### Closing session

16.00 - 16.15	Closing talk <i>Arne Villumsen, ARTEK, Denmark</i>
16.15 - 16.45	Plenum discussion
16.45 - 18.00	No program

### Conference evening

18.00 - ??	Conference dinner
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