

Call for papers



International conference

# Arctic roads

Operating, maintaining and building roads in a climatically challenging environment

Sisimiut 3 - 5 March 2007

**Organised by:**

Arctic Technology Centre

Roadex

Sanaartormik Ilinniafik (The Building and Construction School)

Nutaaliorfik - The Greenland Innovation Centre

- in cooperation with KANUKOKA



# Introduction

Building roads in arctic regions can present a variety of challenges. The harsh climate and permafrost in combination with heavy traffic impact severely on road durability, and therefore place high demands on road construction and maintenance.

Transport planning in the Arctic – including Greenland – is a very current topic. Are we going to fly, sail or drive in cars in the future?

These issues will be discussed at the conference.

The latest methods for analysing damage to roads will be presented. Experiences with maintenance and new proposals for renovating, reinforcing and constructing roads in the Arctic will be presented.

The conference will provide a forum for engineers, politicians, advisers, suppliers and other representatives from trade and industry to meet with researchers, to exchange experiences and new ideas in relation to roads in Arctic areas.

We invite presenters to make a contribution to the conference, and encourage everyone to send a 500-word summary of their presentation to the conference secretariat before 10 December 2006.

If you wish to take part in the conference without making a presentation, please register before 15 February 2007.

## Conference themes:

- **Climatic challenges**, such as:
  - the effects of permafrost on roads
  - spring runoff and its impact
  - climate changes and roads
- **Maintenance and operation of existing urban and rural roads.**
- **Road construction in the Arctic – existing and proposed new methods.**
- **Choice of materials and available resources.**
- **Pavements**, including:
  - Asphalt and gravel pavements.
  - Size parameters and construction of road pavements.
- **Environmental considerations in relation to road construction in the Arctic.**
- **Mapping and the application of GIS in connection with road construction.**
- **The use of non-destructive investigative methods to register the state of roads**, including:
  - Geophysical investigations, with examples from current investigations in Sisimiut.
  - Load capacity investigations
- **Draining roads.**
- **Transport models**

*The final conference programme will be adjusted in line with the contributions we receive.*

## Dates

**10 December 2006:** Deadline for submitting a summary of your papers (500 words)

**20 December 2006:** You will be notified as to whether your presentation has been included in the programme

**1 February 2007:** Submit your presentation (4-10 pages in length)

*A conference publication will be available from the beginning of the conference and distributed to all participants.*

**15 February 2007:** The final programme will be distributed

**2 March 2007:** Arrival in Sisimiut

**3 - 5 March 2007:** Conference in Sisimiut

**6 March 2007:** Depart Sisimiut



## Location and prices

The conference will be held in Sisimiut, Greenland, at Sanaartormik Ilinniarfik – Postbox 1001, 3911 Sisimiut, Greenland.

Conference fee, including accommodation at Sanaartormik Ilinniarfik (4 nights from 2-6 March 2007) and meals (incl. gala dinner) DKK 2,500. Conference fee and gala dinner: DKK 750

Address registrations and correspondence to:

### The conference secretariat

“Arctic roads”

Att: Laust Løgstrup (laul@sisimiut.gl), Sisimiut Municipality, Postbox 1014, 3911 Sisimiut, Greenland

## Organising committee

Prof. Arne Villumsen, Centre Manager

Niels Brock, Associate Professor

Thomas Ingeman-Nielsen, Assistant Professor

ARTEK, The Technical University of Denmark (DTU), Denmark

<http://www.arktiskcenter.gl>

## Registration

Name: \_\_\_\_\_

\_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Tel: \_\_\_\_\_

E-mail: \_\_\_\_\_

I would like to participate in the conference

I would like to have accommodation and meals provided by Sanaartormik Ilinniarfik, 2-6 March 2007

I would like to make a presentation with the following title:

\_\_\_\_\_

### E-mail or mail registrations and other information to:

The conference secretariat “Arctic roads”, Att: Laust Løgstrup ([laul@sisimiut.gl](mailto:laul@sisimiut.gl)),

Sisimiut Municipality, Postbox 1014, 3911 Sisimiut, Greenland

ARCTIC TECHNOLOGY CENTRE



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