



# Challenges for the Arctic Building Industry

ARCTIC TECHNOLOGY CENTRE



 Qeqqata Kommunia



 Nutaaliorfik  
sanaartorneq • nukissiorneq • avatangiisit

NAALAKKERSUISUT  
GOVERNMENT OF GREENLAND



## Background

The building industry in Greenland and in the Arctic presents challenges in many ways, and not just because the temperature and wind conditions are different compared to more southerly climates. It has often, in other contexts, been said that "the special conditions in Greenland" played a decisive factor in life - and perhaps the statement also applies to the building industry.

It is certain that the building industry in Greenland and in the Arctic boasts many excellent examples of successful projects. Unfortunately, there are also many examples of projects that could have been more skillfully executed. Stories of mould during the summer are not new in Greenland. This problem has been more exposed in the media lately because mould was discovered in the buildings of the Government of Greenland. This is an excellent example of one of the challenges the building industry struggles with.

We have therefore chosen to use the ARTEK Event 2012 to focus on the challenges the arctic building industry faces.

Thanks to the Organizing Committee for having given input to constructive and Greenland relevant topics to be discussed during the 2-day event in Sisimiut.

## Conference Organization and Structure

**The conference has 5 major topics:**

- Building design and building quality – solutions adapted to the arctic building industry
- Building in a dry and healthy manner – how ?
- Alternative energy production in the Arctic
- Shoddy building work
- Legislation and control – what is realistic in Greenland ?

For each topic there will be oral presentations and written submissions that are selected on the basis of the abstracts we receive. Also poster contributions are very welcome. Each topic will be discussed at the event, and we hope, of course, to have a lively and engaged debate on all topics. A printed conference publication which will include the papers of the accepted abstracts will be available at the conference and distributed to all participants.

## Who should attend

The aim is to reach a wide audience and welcome the participation from everyone who has contact with and interest in the arctic building industry. This means that everyone – from the youngest apprentices and students to the most experienced craftsmen, contractors, architects and engineers as well as politicians, authorities, suppliers and construction developers – both private and public – are welcome. Students especially should take advantage of the opportunity to present a poster and thus make a contribution to the Artek Event 2012.

## Language

The conference will be held in mainly English. Translation from/to Danish will be provided.

*See you in March in Sisimiut.*

*Arne Villumsen, Head of Centre, Arctic Technology Centre*

## Important dates and call for papers and posters

We welcome abstracts, final papers and posters – in English only – within the following deadlines:

### 9th November 2011:

Deadline for submission of abstracts (max. 300 words) and posters (draft)  
Please send to Ingrid Vernimmen (ingv@byg.dtu.dk)

### 20th November 2011:

Notification of acceptance or refusal of abstracts / posters

### 13th January 2012:

Deadline for the submission of final paper (4-10 pages in length) and final poster.  
Please send to Ingrid Vernimmen (ingv@byg.dtu.dk)

### 12th February 2012:

Deadline for registration for all participants

### 1st March 2012:

Distribution of final programme

### 13-14 th March 2012:

Conference in Sisimiut.

*Authors will retain copyright, but accepted papers will be published in the conference book.*

## Conference Venue

### Prices

The conference will be held in Sisimiut at Sanaartormik Ilinniarfik, the Building and Construction School, 3911 Sisimiut, Greenland.

- Conference fee including accommodation at the Building and Construction School (3 nights : arrival March 12th - departure March 15th ), all meals and gala dinner: 2.500,00 DKK
- Conference fee, lunches and gala dinner (excluding accommodation): 750,00 DKK



Bygningsundersøgelser ApS



# Registration



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

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

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

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

Email: \_\_\_\_\_

Webpage: \_\_\_\_\_

I would like to participate in the conference (including gala dinner and lunches - excluding accommodation) (750 DKK)

I would like to participate in the conference and book accommodation at The Building and Construction School (3 nights: arrival March 12th and departure March 15th) including all meals and gala dinner (2.500 DKK)

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

*I agree that my data will be published on the list of participants*

## Send your registration (deadline 12 February) to:

The conference secretariat  
Att.: Ingrid Vernimmen (ingv@byg.dtu.dk)  
Arctic Technology Centre, Technical University of Denmark (DTU)  
DK-2800 Kgs. Lyngby  
Tel. +45 45 25 18 47 or +45 45 25 21 66  
<http://www.arktiskcenter.gl>

## Please pay the conference fee to the following account number (deadline 12 February)

Name of Bank : Grønlands Banken  
Registration number: 6471  
Account number: 6471-1000605  
Iban: GRENLGX  
Swift code: GL8364710001000605

Please indicate your name and company/organization you represent as well as the wording "Arctic Building"

## Organizing Committee

- Anders B. Møller, Technical Executive DTU Campus Service, Technical University of Denmark
- Arne Villumsen, Professor, Head of Centre, Arctic Technology Centre, Department of Civil Engineering, Technical University of Denmark
- Birgitte Andersen, Associate Professor, Center for Microbial Biotechnology, DTU Systems Biology, Technical University of Denmark
- Carsten Rode, Head of Section & Professor, Department of Civil Engineering, Technical University of Denmark
- Flemming Ulbjerg, Senior Consultant, Rambøll Energy, Rambøll Denmark A/S
- Janus Køster, Civil Engineer, Ministry of Housing, Infrastructure and Transportation, Government of Greenland
- Jesper Johannesen, CEO, INI Byggeteknik AS, Nuuk
- Jørn Hansen, Civil Engineer, Office Manager, Rambøll Grønland A/S
- Kasper Cordt Olsen, CEO, Iglotjek Bygningsundersøgelser ApS
- Mike Jakob Kristiansen, Head of Engineering and Environment, Qeqqata Kommunia
- Peter Barfoed, Architect, Tegnestuen Nuuk A/S
  
- Ingrid Vernimmen, Secretary, Arctic Technology Centre, Department of Civil Engineering, Technical University of Denmark
- Niels Hoedeman, Secretary, Arctic Technology Centre, Department of Civil Engineering, Technical University of Denmark