

The Future of Polar Heritage
Environmental challenges in the face of climate change: detection and response

To be held on 25 -28 May 2014
Museum of Denmark, Copenhagen, Denmark

At 21 January 2014

Key Note Speaker

Professor Bo Elberling, “Environmental challenges in the face of climate change” Director of Center for Permafrost, University of Copenhagen

Topic A: Environmental challenges in the face of climate change: Detection

Using new technologies and modelling tools for detecting threats to sites and buildings in the polar areas. Environmental monitoring programmes and techniques to investigate site stability and degradation of organic and non-organic materials.

Presentations Topic A

| Location | TITLE | Name |
|------------------|--|---|
| Antarctica | Water and Ice Mitigation Programme at Scott’s Hut, Cape Evans, Antarctica – Analysis of Logger Data | Glen Mason, Nigel Watson, Lizzie Meek & Al Fastier |
| Antarctica | Monitoring Detection and Responding to Environmental Change at Ross Island Historic Huts, Antarctica | Nigel Watson & Al Fastier |
| Antarctica | Monitoring programs, data interpretation and artefact stability at Mawson’s huts, East Antarctica | Dr Ian Godfrey, Michelle Berry, Megan Absolon & Peter Maxwell |
| Alaska | Missing in Action: Coastal Erosion and the Prehistory of Northern Alaska | Owen K. Mason |
| Greenland | Coastal environments and settlements in Greenland | Dr Aart Kroon |
| Greenland | Degradation of archaeological material under freezing and thawing conditions | Henning Matthiesen, J. Hollesen, D. Gregory, B. Elberling & J.B. Jensen |
| Greenland | Active layer dynamics in an archaeological midden – partly controlled by internal heat production | Jørgen Hollesen |
| Nth Greenland | Falling into the fjord: the loss of a high-latitude stratigraphic site in northwest Greenland and issues surrounding mitigation of remote archaeological resources | John Darwent |
| Norway | The potential contribution of artefact taphonomy to snow patch research | Elizabeth E Peacock & Jane Hamill |
| Svalbard | Effect on Changes of Permafrost on Cable Car Bucks at Longyearbyen, Spitsbergen | Johan Mattsson & Anne Cathrine Flyen |
| Svalbard | Environmental monitoring of cultural remains at Svalbard: vulnerability and indicators of change | Anne Cathrine Flyen |

Lightning Presentations Topic A

| Location | TITLE | Name |
|-----------|---|--|
| Alaska | Native Inupiat Eskimo people detecting & addressing environmental challenges to historic and archaeological sites | Glenn W. Sheehan |
| Greenland | The drowning landscapes of south Greenland | Naja Mikkelsen, Antoon Kuijpers & Naja Mikkelsen |
| Greenland | Eroding landscapes - palaeoentomology and conservation | Eva Panagiotakopulu, Kim Vickers & Paul Buckland |

Topic B: Environmental challenges in the face of climate change: Response

Future programmes and collaborative opportunities for responding to the changing environment.

New methods for registering sites - digital preservation of polar heritage - challenges and prospects. Laser Scanning, GIS, Remote Sensing. Educational and Cultural Tourism media. The role of CyArk.

Presentations Topic B

| Location | TITLE | Name |
|------------------|--|---|
| Antarctica | The Antarctic Treaty System and the Environmental Protocol: Responding to the Challenges Posed by Climate Change to Antarctic's Human Heritage | Bryan Lintott |
| Antarctica | Antarctic Heritage On-line | Sherrie-Lee Evans |
| Canada Arctic | Digitally Preserving Polar Heritage at Risk: Two Case Studies from the Canadian Arctic | Peter Dawson, Richard Levy & Chris Tucker |
| Canada | The Arctic CHAR Project: Mitigating the Destruction of Archaeological Sites in the Western Canadian Arctic | Max Friesen & Cathy Cockney |
| Greenland | Striking a Balance between Protection and Use of Cultural Heritage Sites in Greenland | Ulla Odgaard, Bjarne Grønnow & Martin Appelt |
| Norway | Circumpolar Climate Change and Coastal Cultural Heritage | Elin Rose Myrvoll |
| Norway | Preservation and restoration of Norse ruin groups in Greenland | Georg Nyegaard |
| Sth Shetlands | Digital tools for recording and conservation of the oldest sealer and whalers archaeological sites in South Shetland Islands, Antarctica | Andrés Zarankin, María Ximena Senatore & Anderson Alves-Pereira |
| Siberia / Russia | Potential impacts on the polar heritage record as viewed from frozen sites of east Siberian arctic | Vladimir Pitulko |
| South Georgia | The South Georgia island shore-based whaling stations surveys | Russell Gibb & Daniel McCurdy & Michael Morrison |

Lightning Presentations Topic B

| Location | TITLE | Name |
|-----------------|--|-------------------------|
| Alaska | Climate change, heritage and archaeology on the north slope of Alaska: improving capacity to respond | Anne Jensen |
| Antarctica | Digital conservation as a new way of working with partners and presenting polar heritage | Dr Nathalie Moreigneaux |
| Arctic | Creating sustainable development in the Arctic: abandoned extraction sites as assets for new Arctic futures | Dag Avango |
| Antarctica | Polar heritage: The Nordenskjöld hut and models as an educational method | Håkan Jorikson |
| Greenland | The Pompei premise in Greenlandic archaeology and the question of how to take care of Greenlands most recent physical heritage | Jens Fog Jensen |
| All | The value of historic documents in the context of polar heritage | Ursula Rack |

Conference Posters

| Location | TITLE | Name |
|-----------------|---|-------------------------|
| Maritime | Heritage assets in remote maritime landscapes: Assessing community techniques of preservation for organic components as possible applications for polar sites | Susanne Grieve |
| Svalbard | Natural and human impact on cultural heritage sites & environments in the Svalbard archipelago | Alma Thuestad |
| All Arctic | Skin costumes online | Anne Lisbeth Schmidt |
| Greenland | The effects of North-South and coast-inland climatic gradients | Anders Bjørn Møller |
| Arctic | Creating sustainable development in the Arctic: abandoned extraction sites as assets for new Arctic futures | Dag Avango |
| All | The value of historic documents in the context of polar heritage | Ursula Rack |
| Antarctica | TBC - Digital conservation as a new way of working with partners and presenting polar heritage | Dr Nathalie Moreigneaux |