

1st International Conference and Workshop on Anode Rodding Plants for Primary Aluminium Smelters 25 – 28 September 2001 Reykjavík - Iceland



Welcome to Reykjavík!

Three years after the idea was first conceived the International Rodding Conference is now a reality. Reykjavík – capital city of Iceland, home of potentially one of the fastest growing primary aluminium sectors in the world is a memorable choice as the venue.

Reykjavík's history dates back to the landing of the first settler, Ingolfur Arnason at Smoky Bay in 874 AD. We've come a long way since then – the geothermal steam which Ingolfur mistook for smoke has been harnessed for heating, and Reykjavík has developed into a modern and spacious city.

Over the past 30 years, both Iceland and Reykjavík have grown in prominence on the world stage, with key events such as

the Fischer-Spassky Chess Tournament (1972), the Reagan-Gorbachev Summit (1986), two Miss Worlds (1985 & 1988), two World's Strongest Men, and more recently Keiko, and of course Björk.

By international measures, Reykjavík, with a population of 110.000, is still pretty small – but you'll find everything that much larger cities can offer, and then more! In 2000, Reykjavík was European City of Culture, a reflection of the whole panorama of the arts to be found in every corner of the city.

Reykjavík's vibrant café and restaurant culture and its amazing night life has led to the city being described as one of the coolest scenes around. Cool or not, you'll find a warm welcome everywhere in the city!

WORLD PREMIERE - ALTRACK Anode & Rod Tracking and Quality System

ALTECH has now completed commissioning of the first ALTRACK module to be installed outside Iceland, at Alouette, where an ALTRACK Stub Analyser uses computer vision to automatically analyse stub toe-in prior to an ALTECH Automatic Stub Straightening Machine.

ALTECH's ALTRACK System is an Anode & Rod Tracking and Quality Control System - a vital tool in securing total quality control in the Primary Aluminium Industry. ALTRACK uses binary dotcode markings on all carbon anodes and rods, hence enabling full traceability. Data is automatically acquired from video cameras

and dotcode scanners; customised operations reports are automatically printed, and detailed management analyses are available on demand, thus providing Total Quality Management to the Carbon and Rodding Plants, enabling Potrooms to be served with consistently high quality anodes.

Interest in ALTRACK is high – ALTECH is in discussions with more than twenty smelters about possible implementation of the ALTRACK System in existing Rodding Plants and ALTRACK has been specified in over ten new smelter projects.

ALTECH welcomes you to Reykjavík, the most northerly capital city in the world, and the home of the 1st International Anode Rodding Conference. ALTECH is proud to be one of the major sponsors of the Conference.

Many of you will know ALTECH, both company and managers, from meetings over the years at Exhibitions, Conferences and during our visits to you. It is a particular pleasure to see you all in our city.

This Conference Special Newsletter is intended to show you a little of where we live, as well as serving the very practical function of giving you the full Conference Programme.

We wish you all a very successful Conference and do hope that when you leave you will take with you pleasant memories of our beautiful country.

The Conference is co-organised by:

dmg world media (uk) ltd, publishers of Aluminium Today and IceTec, the Technological Institute of Iceland, in co-operation with Metal Park.



And in two years time...

The 2nd International Anode Rodding Conference and Workshop on Anode Rodding Plants will be held in Reykjavík, Iceland during the week of 5-9 September 2003.

1st International Conference and Workshop on Anode Rodding Plants 25 – 28 September 2001 Reykjavík – Iceland

Monday 24 September 13.00 – 18.30 Registration 18.00 – 19.30 Welcome Reception – Hotel Loftleidir - Hosted by Boreal Laser of Canada  BOREAL LASER INC.

Tuesday 25 September

07.30–09.00 Registration & Service Desk

09.00–10.30 Opening Ceremony

Chairman: Hallgrímur Jónasson, General Director, IceTec, Iceland

- Opening Address
Valgerdur Sverrisdóttir - Minister of Industry - Iceland
- Conference and Workshop Programme - Presentation and Aim
Ken Stanford, Managing Editor, "Aluminium Today", UK
- Keynote Address - "Aluminium Industry in the 21st Century"
Toralf Cock, Managing Director, Skanaluminium, Norway

10.30–11.00 Coffee

11.00–12.30

CS1 ISO 9000 & Anode Production & Quality Control

Chairman: Daniel Tourigny, ALCAN-Alma, Canada

- "Carbon Material Balance and Anode Quality"
Hogne Linga, Hydro Technology, Årdal, Norway
- "Inert Anodes - Latest Developments"
Halvor Kvande, Hydro Aluminium, Oslo, Norway
- "Influence of Butt Properties on Anode Quality"
Raymond Perruchoud, R&D Carbon, Switzerland

12.30–14.00 Lunch hosted by Invest in Iceland Agency 

14.00–15.30

CS2 Rod Repair and Quality Control

Chairman: Ingólfur Ö. Thorbjörnsson, IceTec, Iceland

- "Anode and Rod Coding and Tracking"
Barry C. Woodrow, ALTECH JHM Ltd, Iceland
- "Asset Information and Maintenance Systems"
Bjarni Kristjánsson, DMM Systems, Iceland
- "In-Line Rod Repair Facilities"
Brian Allison, Baldor Services, U.K.
- "Cost Savings in Rod Repair"
Øyvind Jevnaker, Hydro Ardal, Norway

15.30–16.00 Coffee

16.00–17.30 Workshop Sessions 1-3

- WS 1 ISO 9000 and Anode Production and Quality Control
Chairman: Palmi Stefánsson, Consultant, Iceland
- WS 2 Rod Repair Facilities
Chairman: Sveinn Snæland, NORDURAL, Iceland
- WS 3 Anode and Rod Coding and Tracking
Chairman: Ingólfur Ö. Thorbjörnsson, IceTec, Iceland

18.30–20.00 Reception
– U.K. Ambassador's Residence
(buses 18.20)
Hosted by H.E. Ambassador John Culver 

Wednesday 26 September 2001

08.00–09.00 Registration & Service Desk

09.00–10.30

CS3 Automation and SCADA Systems

Chairman: Bjarni Jónsson, ISAL, Iceland

- "Automation Strategy; PLC / SCADA Systems and the WWW"
Ben Peters & Søren Hald, Rockwell Automation, Denmark
- "Improving Business Decisions through Transparent Manufacturing Information"
Claus Abildgren, Wonderware Centre, Denmark
- "ABB Hybrid Control Systems"
Heikki Tanskanen, ABB, Switzerland

10.30–11.00 Coffee

11.00–12.30

CS4 ISO 14000 Operational Safety and Environment

Chairman: Björn Ingi Sveinsson, Hönnun hf, Iceland

- "ISO 14000 Standard on Operational Safety and Environment"
Gudjón Jónsson, VSO Consulting, Iceland
- "Safety Clothing for the Aluminium Industry"
Vidar Magnússon, Foxhall, Iceland
- "Operational Procedures and Safety in the Anode Rodding Shop"
Frank Holloway, Hillside Aluminium, South Africa

12.30–14.00 Lunch hosted by Landsvirkjun 

14.00–15.30

CS5 Bath Cleaning & Handling – Different Approaches

Chairman: Werner Van Schalkwyk, Hillside Aluminium, South Africa

- "Anodes Butts Cleaning Station"
Italo Dal-Porto, TECHMO Car SpA, Italy
- "Bath Cleaning and Bath Processing"
Lars Hovda, SMV, Norway

15.30–16.00 Coffee

16.00–17.30 Workshop Sessions 4-6

- WS 4 ISO 14000 Operational Safety and Environment
Chairman: Frank Holloway, Hillside Aluminium, South Africa
- WS 5 Logistics in Anode Transportation and Storage
Chairman: Lars Magne Björbeek, Hydro Sunndal, Norway
- WS 6 Bath Cleaning and Handling – Different Approaches
Chairman: Ingvar Pálsson, ISAL, Iceland

18.30–20.00

Reception – Reykjavík City Hall

Hosted by Reykjavík City Council (buses 18.20)

Wine Sponsored by: Hönnun hf, Consulting Engineers

 City of Reykjavik  HÖNNUN

Thursday 27 September

08.00–09.00 Registration & Service Desk

09.00–10.30

CS6 Anode Casting Stations

Chairman: Tómas Sigurdsson, NORDURAL, Iceland

- "The Principles of Induction Metal Melting"
Bob Hattersley, Inductotherm, U.K.
- "Mobile Anode Casting Stations"
Erich Pizzera, Scharf Westfalia, Germany
- "Anode Casting Stations"
Jean-Jacques Grunspan, Brochot, France
- "Stationary Anode Casting Station - Experience from ALBA"
Jón Gunnlaugsson, ALTECH JHM Ltd., Iceland

10.30–11.00 Coffee

11.00–12.30

CS7 Logistics in Anode Transport and Storage

Chairman: Lars Magne Björbeek, Hydro Sunndal, Norway

- "Anode Transport Vehicles"
Lars Hovda, SMV, Norway
- "Anode Transporters"
Italo Dal-Porto, TECHMO Car SpA, Italy
- "Overhead and Roller Conveyors"
Daniel L. Borich, Jervis B. Webb Inc., U.S.A.

12.30–14.00 Lunch hosted by Nordural 

14.00–15.30

CS8 Changes in Production for Increased Amperage

Chairman: Richard A. Starkweather, Nordural, Iceland

- "Amperage Increase at DUBAL - New Anode and Rod Design"
Abdulla Kalban, Dubai Aluminium, U.A.E.
- "Changes in Production in Rodding Shops for Increased Amperage"
Michelle Henderson, Comalco NZ, Tiwai Point, New Zealand
- "Rodding Shop Layouts for Optimal Anode Production"
Jón H. Magnússon, ALTECH JHM Ltd., Iceland

15.30–16.00 Coffee

16.00–17.20

Workshops - Conclusions & Discussions

Chairman: Geir Gunnlaugsson, Reydaral, Iceland

17.20–17.30 Closing Ceremony

Ken Stanford, Managing Editor, "Aluminium Today", U.K.

17.30–19.00

Reception – Hotel Loftleidir

Hosted by the Ministry of Industry 

Friday 28 September

TECHNICAL VISITS

08.00 Buses leaves Hotel Loftleidir to Nordural

08.00 Bus leaves Hotel Reykjavik to Nordural

Nordic Aluminium, Grundartangi

Visit to Rodding Plant.
Asset Management System and HF Gas Detection presentations

ALTECH Mechanical Workshops, Hafnarfjörður

Inspection of Rodding Plant machinery

12.45–14.45 Lunch – hosted by ÍSAL, ALCAN Icelandic Aluminium 

including presentation by Press Officer

15.15 Hitaveita Sudurnesja, Svartsengi 

16.30 Farewell Cocktails

– hosted by Hitaveita Sudurnesja

17.15 The Blue Lagoon (swim optional)

Each bus will leave the Blue Lagoon when reasonably full

18.30 Last bus leaves the Blue Lagoon

18.00–19.15 Buses arrive Hotel Loftleidir
(timings depend on actual departures from the Blue Lagoon)

Please note that buses terminate at Hotel Loftleidir.
Delegates proceeding to other hotels should make individual arrangements.

PARTNERS BUS

15.45 Partners' bus leaves Hótel Loftleiðir (pick-up at other hotels by arrangement)

16.30 Partners' bus arrives Hitaveita Sudurnesja, Svartsengi

Thanks also to:

ALTECH

for the Conference Bags and everything else

ICELANDAIR 

for the tickets

 **Globus**

for the candies

Photographs: Mats Wibe Lund



GasFinder - laser-based HF gas detectors for the primary aluminium industry



Boreal Laser Inc.
#13 51127 RR 255
Spruce Grove, AB
Canada T7Y 1A8
phone: +1 780 987 4382
fax +1 780 987 2418
www.boreal-laser.com
sales@boreal-laser.com

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Landsvirkjun, P.O. Box 100, 101 Reykjavik, Iceland Tel: +354 51 11 11 Fax: +354 51 11 11
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fax +354 5252 319 tel+354 5252 300
e-mail mail@altech.is Web www.altech.is

DMM Asset Information System

- Specifically designed for asset management, using laser scanning technology
- Developed in close cooperation with the aluminium industry
- 3D Identification System for Aluminium assets, designed to DMM treatment
- Direct link to assets through CAD drawings
- DMM is easily connected to ERP systems
- Direct link to MS Project, Excel and Word
- DMM offers a cross-platform solution with a clear focus and user-friendly interface.

www.dmm.is dmm@dmm.is tel. +354 420 6200

foxhall



ALPROTEC



We publish this Newsletter to inform the aluminium industry about our products and services. We also aim to include news briefs about the industry worldwide. Information is also available at our Website www.altech.is

ALUMINIUM UK 2001

ALTECH will exhibit at ALUMINIUM U.K. 2001 at the Metals Engineering event, the National Exhibition Centre, Birmingham, England 8-11 October 2001, Stand No. A3

Also featured on ALTECH's stand will be products from ALTECH's partners:

- ALTRACK-DMM Asset Management and Maintenance System from DMM.
- specialist mobile equipment for the aluminium industry from SMV.
- GasFinder laser-based HF detection systems from Boreal Laser.

TMS 2002

A regular exhibitor, ALTECH will once again be at TMS in Seattle, WA, USA 17-21 February 2002.

ALUMINIUM ESSEN 2002

As in previous years, ALTECH will participate at ALUMINIUM ESSEN 18-20 September 2002

WORLD SMELTER MAP



ALTECH's popular World Map of Primary Aluminium Smelters has been fully updated and revised and is once more available to industry professionals. The map, is 650 x 1000 mm, is plastic coated, despatch is in a protective tube, and delivery worldwide is by DHL. Email us for prices mail@altech.is

NEWSLETTER BACK COPIES

Back copies of all ALTECH Newsletters are available in Adobe Acrobat format (pdf files) at our Web site www.altech.is and click the "News" button.



ALTECH's Head Office – you are most welcome to visit us during your stay in Reykjavik

SPONSORSHIP... and MORE !

ALTECH is proud to be associated with the 1st International Anode Rodding Conference and Workshop. We're delighted to sponsor the Conference Bags and to help with other items such as our popular World Map. We've also been working hard behind the

scenes to provide technical services and information to make this Conference a success !

We welcome you all to Reykjavik, and wish you a fulfilling stay !

ALTRACK-DMM Asset Management & Maintenance System

ALTECH announces the release of Version 2.0 of the ALTRACK-DMM Asset Management and Maintenance System, a fully-functional system connecting seamlessly to standard financial and inventory systems, such as SAP®, Navision Financials®, and Concorde®.

A joint venture between ALTECH and DMM Systems of Keflavik / Iceland, the ALTRACK-DMM System is a derivative of the DMM Asset Management System already dominant in the Icelandic power generation, transmission and distribution industry and successfully installed and used at Nordic Aluminium in Iceland.

Version 2.0 of ALTRACK-DMM includes features requested by existing clients -

a more "Windows-like" GUI which is immediately familiar to new users, further reducing training time; additional emphasis on analysis – a new "Soft Grid" feature provides immediate drag-and-drop sorting; a much expanded reporting facility provides a range of standard reports and great flexibility for customisable forms; resource planning has been improved; and access control has been made more versatile.

ALTRACK-DMM is a vitally important tool for all smelters certified to or working towards ISO9000 and ISO14000 certification, including upgrades to the new ISO9000:2000.

PARTNERS... in Professional Development

Over the years we've worked hard to find professional partners to strengthen the services we offer to the primary aluminium industry. We're particularly pleased to be able to welcome some of our partners to Reykjavik for the Conference, both as delegates and as speakers.

In particular we want to say hello to:

- Boreal Laser, Inc., Canada
- DMM Systems, Iceland
- Foxhall Ltd., Iceland
- Inductotherm Ltd., United Kingdom
- SMV A/S, Norway