Previewing products and services for over 160 companies participating in the TMS 2001 Annual Meeting Exhibition

Featuring:

- A Product & Services Index
- Individual Company Profiles
- Exhibition Floorplan
- Alphabetical Listings of Exhibitors

View complete meeting and exhibition details, as well as current exhibitor information in TMS OnLine at:

http://www.tms.org/Meetings/Annual-01/AnnMtg01Home.html
TMS 2001 ANNUAL MEETING EXHIBITION
PRODUCT/SERVICE INDEX

Refer to this convenient index to locate companies supplying the products and services you are looking for:

**AIR POLLUTION CONTROL EQUIPMENT**
- BHA Group Inc.
- Danieli Corus
- Moltech
- OPSIS Inc.
- Procedair Industries

**ALUMINUM INDUSTRY WEAR PARTS**
- Saint Gobain Ceramics & Plastics Inc
- Thermal Systems America

**ALUMINUM PROCESSORS**
- Christy Refractories
- Danieli Corus
- Hodges Group, Inc.
- Loma Machine Mfg

**ALUMINUM PRODUCTION TECHNOLOGY & EQUIPMENT**
- ABB Industrie AG
- Advanced Dynamics Corp Ltd
- Aisco Systems Inc.
- Almeq Norway AS
- Altech
- B & P Process Equipment & System LLC
- Bricmont Inc
- Canadian Overhead Handling Inc.
- Eirich Machines Inc.
- Fosbel Inc
- Glama Maschinenbau GmbH
- Hencon B.V.
- Hodges Group, Inc
- Holcan Constructions
- Holton Conform
- Jayne Industries
- Jervis W. Webb Co
- Johnston-Vermette
- Kempe International
- Keops Technologies Inc
- Kvaerner Process Technology
- LMI Selcom
- LOI, Inc. Industrial Furnaces
- Loma Machine Mfg.
- Megaquip Industries Ltd
- Moeller Electric GmbH
- Moltech
- Murlin Chemical Inc.
- Noell Crane & Service Inc.
- Pechiney
- Precision, Inc.
- Pyrotek Inc
- Rex Roto Corp
- Sentech Corporation
- Sermas Industrie
- SETARAM

**ALUMINUM QUALITY**
- ABB Bomem Inc.
- Altech
- Cambridge Scientific Abstracts
- MagChem Inc.
- Nalico Chemical Co
- Precimeter, Inc.

**ALUMINUM REFINING SYSTEMS**
- Aisco Systems Inc.
- Asbury Fluxmaster
- Hodges Group, Inc.
- Hydro Aluminium Hycast
- Lem High Current Systems
- Master Alloys Co.
- Noell Crane & Service Inc
- Pyrotek Inc
- STAS Ltd

**ANODE: ASSEMBLY**
- Almeq Norway AS
- Altech
- Erico
- GNA Industrial Furnaces Inc.
- Jervis B. Webb Company
- Kempe International
- KHD Humboldt Wedag
- Precision, Inc.
- Scharf Westfalia GmbH
- SETARAM
- Sermas Industrie

**CLEANING**
- KHD Humboldt Wedag
- Scharf Westfalia GmbH
- Techmo Car S.p.A.

**ROD STUB WELDING**
- Altech
- Erico
- Holcan Constructions Pty. Ltd.
- Precision, Inc.

**TRANSPORTATION**
- Scharf Westfalia GmbH
- Techmo Car S.p.A.

**AUTOMATION/COMPUTER SIMULATION**
- Advanced Dynamics Corp
- AISCO Systems Inc
- Alusuisse Aleasa Ltd.
- Applied Research Laboratories
- Bricmont, Inc.
- Hamilton Research & Technology
- Hatch Kaiser
- Jervis B. Webb Company
- Keops Technologies Inc
- LMI Selcom
- LOI, Inc. Industrial Furnaces
- Loma Machine Mfg., Co., Inc.
- LVE Verfahrenselektorlinik GmbH
- Moeller GmbH
- Sentech Corporation
- STAS
- Thermcon Ovens BV
- UES Software Inc.
- VAW Aluminium-Technologie GmbH

**BORON NITRIDE COATINGS**
- Asbury Fluxmaster of Utah
- Milward Alloys
- Rex Roto Corp
- ZYP Coatings Inc.

**BUTT: CRUSHING**
- Techmo Car S.p.A.
- KHD Humboldt Wedag
- Scharf Westfalia GmbH

**STRIPPING**
- KHD Humboldt Wedag
- Scharf Westfalia GmbH

**CARBON: PASTE PRODUCTION & EQUIPMENT**
- B&P Process Equipment and Systems
- Eirich Machines Inc
- FCB
- KHD Humboldt Wedag
- Kvaerner Process Technology
- Pechiney
- Procedair
- Vesuvius
- Wienalco
CATHODE REFINING
Sermas Industrie
Vesuvius

TECHNOLOGY AND SUPPLIES
ABB Industrie AG
Alusuisse Alesa Ltd.
FCB Aluminum
Jervis B. Webb Company
Johnston-Vermette
Kvaerner Process Technology
GNA Industrial Furnaces Inc.
Innovatherm Company
LVE Verfahrenselektronik GmbH
R & D Carbon Ltd.
SETARAM
VAW Aluminium Technologie GmbH
Wienalco

CASTING
Advanced Dynamics Corp. Ltd.
Aisco Systems Inc.
Alan Worswick (Eng.) Ltd.
Albany Research Ctr/US Dept of Energy
Almeq Norway AS
Asbury Fluxmaster
Canadian Overhead Handling Inc
Holton Conform
Hydro Aluminium Hycast
Johnston-Vermette
Kabert Industries
Loma Machine Mfg
LVE Verfahrenselektronik GmbH
MAGChem Inc.
maerz-gautschi Industrial Furnaces
Mechatherm International Ltd.
Murlin Chemical Inc
Pechiney
RHI Refractories America
VAW Aluminium-Technologie GmbH
Wagstaff Inc
Zircar Ceramics Inc
ZYP Coatings

CEMENT
ABB Industrie AG
Bruker AXS
Molten Metal Equipment Innovations Inc.
Ptyor Giggey Co

CHEMICALS AND ADDITIVES
Asbury Fluxmaster
Betz Dearborn
Lem High Current Systems
MagChem Inc.
Master Alloys
Metallurg Aluminium
Murlin Chemical Inc
Nalco Chemical Company

CLEANING SYSTEMS
MagChem Inc.

CLOTHING – PROTECTIVE
Pyrotek Inc
Silver Needle Inc

COMBUSTION TECHNOLOGY
Bloom Engineering Co., Inc.
Bricmont, Inc.
Erico Products Inc
Hauck Mfg Co
Hotwork
maerz-gautschi Industrial Furnaces
North American Manufacturing
Thermcon Ovens BV

COMPUTER SOFTWARE
Hamilton Research & Technology Ltd
Hatch Kaiser
LOI, Inc. Industrial Furnaces
LVE Verfahrenselektronik GmbH
SciDoc Inc
SETARAM
UES Software Inc

CORROSION/SURFACE TREATMENT
Betz Dearborn
Nalco Chemical Company
Zircar Ceramics Inc

CRANES
Canadian Overhead Handling
NKM
Noell Crane & Service
Wienalco

DEGASSING
Asbury Fluxmaster
Blasch Precision Ceramics
Graphite Equipment Mfg Inc
Hydro Aluminium Hycast
Mechatherm International Ltd.
Metallics Systems
Molten Metal Equipment Innovations Inc.
PcO Raadts
Pechiney
Pyrotek Inc
Saint-Gobain Ceramics & Plastics, Inc
SELEE Corporation
STAS

DROSS:
HANDLING EQUIPMENT
Alan Worswick Engineering Ltd
Almeq Norway AS
Alutech International
Alu-Cut International Inc.
Brochot SA
Fonderie Saguenay
Glama Maschinenbau
Mechatherm International Inc.
Plibricon Company
Precision, Inc.
Pyrotek Inc

SERMEX
Sermas Industrie
STAS

COOLING
Alu-Cut International Inc.
STAS

PROCESSING
Alutech International
Kempe International
Mechatherm Intl Ltd
Precision Inc

REMOVAL
Alu-Cut International Inc.

ENGINEERING AND CONSULTING SERVICES
Advanced Dynamics Corp. Ltd.
Aisco Systems Inc.
Almeq Norway a/s
Alutech
Alusuisse Alesa Ltd.
Bricmont, Inc.
Danieli Corus Canada Inc
Erico
FCB Aluminum
Fonderie Saguenay
Graphite Equipment Mfg Inc
Hatch Kaiser
Hencon B.V.
Jervis B. Webb Company
Johnston-Vermette
Loma Machine Mfg
maerz-gautschi Industrial Furnaces
Moeller Electric GmbH
Nalco Chemical Co
PcO Raadts
R & D Carbon Ltd.
Rex Roto Corp
Scharf Westfalia Industrial Systems GmbH
SciDoc Inc
STAS
Techmo Car S.p.A.
Thermcon Ovens BV
UES Software Inc
VAW Aluminium-Technologie GmbH
Wagstaff Inc.

FILTRATION
BDH Industries
BHA Group Inc
Christy Refractories
Graphite Equipment Mfg Inc
Kabert
McAllister Mills, Inc.
Metallics Systems Co L.P.
Pechiney
Pyrotek Inc
Rex Roto Corp
SELEE Corporation
STAS
US Filter
Vesuvius

Pre-Show Report ▶ 3
FURNACES
Albany Research Ctr/US Dept of Energy
Alu-Cut International Inc.
Bricmont, Inc.
Erico
Fosbel Inc
Gillespie & Powers, Inc.
GNA Industrial Furnaces Inc.
Hatch Kaiser
Hodges Group, Inc.
Jayne Industries
LOI, Inc. Industrial Furnaces
Louis A. Grant Inc.
maerz-gautschi Industrial Furnaces
Mechatherm International Inc.
Pilbrico Co
Seco/Warwick
SETARAM
Stein Atkinson Stordy Ltd
Thermcon Ovens BV
Thorpe Technologies
Zirca Ceramics Inc

GRAPHITE PARTS
Graphite Engineering & Sales
Graphite Equipment Mfg Inc
Metaullics Systems Co L.P.
Molten Metal Equipment Innovations Inc.
Pyrotek Inc
Sermas Industrie
Superior Graphite

GRAIN REFINERS HARDENERS
Aleastur
KBM Affilips B.V.
Holton Conform
KB Alloys Inc
Master Alloys
Milward Alloys
Metallurg Aluminium

HF MEASUREMENT SYSTEMS – POT ROOMS/STACKS
OPSIS Inc.
STAS

INDUSTRIAL GASES
Johnston-Vermette
Opsi Inc.
Pc+O M Raaads
Seco/Warwick

INGOT & SOW CASTING HANDLING & STACKING
Advanced Dynamics Corp Ltd
Alan Worswick (Engineering) Ltd
Alu-Cut International Inc.
Canadian Overhead Handling Inc
Jervis B Webb Co
Johnston-Vermette
LOI, Inc. Industrial Furnaces
maerz-gautschi Industrial Furnaces
Megaquip Industries Ltd
Sermas Industrie
Thermcon Ovens B.V.
Wagstaff Inc.

INSTRUMENTATION
ABB Bomem Inc.
Applied Research Laboratory
Bruker AXS
Hamilton Research & Technology Ltd
Heraeus Electro-Nite Co
maerz-gautschi Industrial Furnaces
LMI Selcom
LOI, Inc. Industrial Furnaces
Precimeter, Inc.
R&D Carbon
Sentech Corporation
SETARAM
Thermcon Ovens B.V.

LUBRICANTS
KB Alloys
MagChem Inc.
Master Alloys
Metallurg Aluminium
Pyrotek Inc
ZYP Coatings

MASTER ALLOYS
Aleastur
Asbury Fluxmaster
Holton Conform
KB Alloys Inc
KBM Affilips B.V.
London & Scandanavian
Master Alloys Co
Metallurg Aluminium
Milward Alloys Inc.
Pyrotek Inc.

MATERIAL HANDLING
Advanced Dynamics Corp. Ltd
Aisco Systems Inc.
Alan Worswick (Eng.) Ltd.
Almeq Norway a/s
Alu-Cut International Inc.
Alusuisse Alesa Ltd.
BHA Group
Canadian Oversead Handling Inc
FCB
Glama Maschinenbau GmbH
GNA Industrial Furnaces Inc.
Jervis B. Webb
Kempe International
Loma Machine Mfg., Co., Inc.
Megaquip Industries Ltd
Murlin Chemical Inc
NKM
Noell Crane & Service
Precision Inc
Scharf Westfalia Industrial Systems GmbH
Sermas Industrie

MATERIAL INFORMATION
CSM International
Metallurgical Society of CIM

MEASUREMENT/TESTING AND ANALYSIS
ABB Bomem Inc.
Applied Research Laboratory
Heraeus Electro-Nite
LMI Selcom
Niton Corporation
Precimeter, Inc.
R & D Carbon Ltd.
Radiometrie Corp.
Sentech Corporation

MOLTEN METAL PUMPS
Alu-Cut International Inc.
Christy Refractories
Graphite Equipment Mfg
Metaullics Systems Co L.P.
Molten Metal Equipment Innovations Inc.
Pyrotek Inc
Stein Atkinson Stordy Ltd
STAS

PORT AUTHORITY
Port of Longview

PROCESS EQUIPMENT
ABB Industrie AG
Alu-Cut International
B&P Process Equipment & Systems
Eirich Machines Inc.
Hamilton Research & Technology Ltd
Hatch Kaiser
Hencab BV
Holton Conform
Jayne Industries
Jervis B. Webb Company
Johnston-Vermette
Kempe International
LOI, Inc. Industrial Furnaces
Pyrotek Inc
Rex Roto Corp.
Scharf Westfalia Industrial Systems GmbH
Seco/Warwick
SETARAM
Thermal Systems America
Tyco Flow Control
Wienalco

PUBLISHERS
33 Metalproducing
Aluminium Times
Aluminium Today
Cambridge Scientific Abstracts
Giesel/Verlag GmbH—Aluminium

Techmo Car S.p.A.
Thermcon Ovens BV
Wienalco
Industrial Heating Magazine
Kluwer Academic Publishers
Light Metal Age
Metal Bulletin LLC
Metallurgical Society of CIM
R & D Carbon Ltd.
SciDoc Inc

RECYCLING/SCRAP PROCESSING
Almeq Norway a/s
Asbury Fluxmaster
Hencon B.V
Holton Conform
LOI, Inc. Industrial Furnaces
LVE Verfahrenselektronik GmbH
Mechatherm International Inc.
Metalleics Systems Co. L.P.
Scharf Westfalia Industrial Systems GmbH
Stein Atkinson Stordy Ltd
Thermcon Ovens
Thorpe Technologies

REFRACTORY & INSULATING: PRODUCTS
Blasch Precision Ceramics
BNZ Materials, Inc.
Borgestad Fabrikker AS
Christy Refractories
Clayburn Industries Ltd
Fosbel Inc
Gillespie & Powers, Inc.
Gouda Vuurvast N V
Jaye Industries
Kabert Industries
maerz-gautschi ltd.
McAllister Mills, Inc.
Minteq International Inc
Murlin Chemical Inc
National Refractories & Minerals Corp
Plibrico Co.
Pryor Giggey Co.
Pyrotek Inc
Resco Products Inc
Rex Roto Corp
RH1 Refractories America
Saint-Gobain Ceramics & Plastics Inc.
SELEE Corporation
Skamol Inc.
Stellar Materials
Thermal Ceramics
Thermal Systems America
Thermcon Ovens
Vesuvius
Vulcan Refractories Ltd
Zircar Ceramics Inc
ZYP Coatings, Inc.

MAINTENANCE/REPAIR
Borgestad Fabrikker AS
Clayburn Industries Ltd
Minteq International Inc
National Refractories & Minerals Corp
Pryor Giggey Co
Resco Product Inc
Vesuvius

RESEARCH & DEVELOPMENT
Albany Research Ctr/US Dept of Energy
Clayburn Industries Ltd
Minteq International Inc

SAWING SYSTEMS
Alu-Cut International Inc.
Mag Chem Inc.
Sermas Industrie

SERVICE CONTRACTORS
BHA Group
Christy Refractories
Clayburn Industries Ltd
Hatch Kaiser
Hotwork
Noell Crane & Service Inc
Pryor Giggey Co.
R&D Carbon Ltd
SciDoc Inc

VEHICLES FOR POTROOMS & CASTHOUSES
Hencon
Techmo Car S.p.A.

WATER COOLING & TREATMENT
Betz Dearborn
Mechatherm International Limited
Nalco Chemical Company
US Filter

X-RAY DIFFRACTION
Bruker AXS

EXHIBITION SCHEDULE OF EVENTS

Show Hours:
Monday, 12 February 2001
New Hours: 12:00 Noon–6:00 PM
Tuesday, 13 February 2001
9:30 AM–5:00 PM
Wednesday, 14 February 2001
9:30 AM–3:00 PM

Grand Opening Reception:
Monday, 12 February
5:00–6:00 PM
Enjoy complimentary hors’deuvres, music and cocktails while touring the show floor!

Complimentary Lunch:
Tuesday, 13 February
12:00–1:30 PM
Redeem the ticket in your registrants packet for lunch, hosted by the Exhibitors and TMS.

Afternoon Snack Giveaway:
Wednesday, 14 February ................................. 12:15 - 2:15 PM
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<th>COMPANY</th>
<th>BOOTH #</th>
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<td>ABB Bomem, Inc.</td>
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ABB Bomem, Inc.  
#807  
www.bomem.com  
Québec, Canada  
Metallurgical Industry  
ABB Bomem’s Metallurgical Instruments offer many effective solutions to the aluminum industry for inclusion and hydrogen measurement. Several measurement technologies are patented and licensed exclusively to ABB Bomem for worldwide distribution by Alcan International Limited and N-TEC. ABB Bomem also offers metallurgical technical support and metallographic analysis service.

ABB Industrie AG  
#625  
www.abbch/industrie  
Baden-Dättwil, Switzerland  
ABB’s Business Unit Building Material & Mineral Industries, headquartered within ABB Industrie AG, Switzerland, offers single products and site services up to large turnkey electrification for the construction, extension and modernization of smelter operations, mineral extraction and production facilities worldwide.

Owners, producers, suppliers, consultants and their engineers have come to appreciate the value of a single source to resolve critical issues. ABB safeguards the client’s investment and ensures results by providing an integrated approach to engineering, supply, construction and management (ESCM).

ABB covers the full value-added chain, from the bauxite mine to the primary aluminum. We excel at merging equipment, skills and services into a comprehensive customized solution that strengthens our clients’ entire operation. ABB leads the market in key electrical generation, distribution and transformer rectifier systems.

Advanced Dynamics Corp Ltd.  
#917  
St Bruno, Quebec, Canada  
Advanced Dynamics Corp. Ltd. designs and manufactures custom materials handling systems for primary aluminum smelters and secondary aluminum products producers.

Primary Producers  
- Carbon anode handling equipment for both green and baked anodes, rodding room and ring furnace maintenance equipment  
- Aluminum ingot sawing and identification equipment for round logs, T ingots and sheet ingots

Secondary Producers  
- Aluminum ingot handling systems including downenders, billet stacking systems, transfer cars and rotary turntables  
- Aluminum casting equipment including sow casting carousels and crucible tilters

Integrated Control Systems  
- Computer linked PLC controls with panelview access screens, programmable identification by pin of character stamp, ink jet or bar code.

Please call us at your convenience at (450) 653-7220 to discuss your equipment requirements and visit us at booth #917 at the 2001 TMS Show.

AISCO Systems Inc.  
#523  
http://www.aiscosystems.com  
Burlington, Ontario, Canada  
Aisco Systems Inc. provides engineered machinery, systems and integrated process solutions for aluminium smelter rodding rooms, casthouses and copper tankhouses

Aisco Systems Inc. provides engineered machinery, systems and integrated process solutions for the non ferrous metals industry including aluminium rod shops and casthouses, zinc refiners and copper tankhouses.

Rodding Room: Aisco is a technical leader in supplying rodding room equipment, from anode loading/unloading, butt bath cleaning systems, butt and thimble presses and rod reconditioning equipment through to anode and rod mating stations and iron pouring systems.

Casthouse: Aisco design and manufacture sow casting and foundry ingot casting systems, including stacking and strapping equipment for use in primary and secondary facilities. In addition, we provide sawlines with fully automated material handling for slab/t-bar and billets

Copper Tankhouse: Aisco produces copper anode preparation and tankhouse machinery and solutions to your tankhouse problems. Our unique carousel design provides high production rates and efficient use of plant space

Zinc Refining: Aisco has a licence with Asturiana de Zinc of Spain to manufacture zinc processing machinery for the cellhouse.

Please call Aisco to discuss your equipment requirements or visit us at booth #523 at the 2001 TMS Annual Meeting & Exhibition.

Alan Worswick Ltd  
#811  
http://www.worswick.com  
Blackburn, England  
Since its formation in 1960, Alan Worswick (Engineering) Ltd has developed and refined its unique rotary ingot casting machine together with downstream ingot handling equipment including ingot cooling conveyors and ingot stacking machines to provide a complete - automated ingot production system for most primary and secondary non-ferrous ingot production, enabling them now to offer the most comprehensive equipment list within this field.

Over the years, “Worswick” became known as an innovative designer and manufacturing company resulting in the receipt of many enquiries and subsequent orders for specialised machines for the non-ferrous metal industry including; billet stackers, anode producing machines, sow/block casters, lead dross removal machines and automated gravity diecasting machines, in fact equipment to produce everything from zinc balls to aluminium engine blocks.

To date, “Worswick” has built more than 300 casters and 100 stackers of various types and would be pleased to discuss your requirements from either our existing extensive range, or for custom designed - special purpose machines, either at Booth No. 811 at the 2001 TMS Annual Meeting Exhibition in New Orleans or e-mail us at sales@worswick.com

Albany Research Center  
#847  
http://www.alrc.doe.gov  
U.S. Department of Energy  
1450 Queen Avenue, SW  
Albany, OR 97321  
contact: Paula Palmer - palmer@alrc.doe.gov

The Albany Research Center is a U.S. government materials research and development laboratory conducting research programs and collaborating in partnership with industries and other agencies, to provide solutions for corrosion, wear, melting and casting, and waste generation in industrial and power generation systems. Researchers at the Center determine factors that limit service life of materials, provide solutions to service-life problems through new materials technology, and develop and demonstrate technologies that reduce waste and pollution in materials processing and forming. Featured will be the following: Thin Walled Ferrous Castings, Low-Cost Titanium Production, and Recycling/Remediation of Solid, Liquid and Hazardous Waste.
Alcan International Ltd  
#810  
Montreal, Quebec, Canada

Aleastur  
#919  
http://www.aleastur.com  
Aviles, Asturias, Spain

Asturiana de Aleaciones, S.A.  
Pol. Ind. de Maqua, s/n AVILES  
E33400 SPAIN  
Phone: +34 98 5129038  
E-mail: aluminium@aleastur.com

Aleastur manufactures a comprehensive range of Grain Refiners and Master Alloys. The major activity is concentrated in the production of AlTiB alloys in rod completing its product range with other alloys such as AlSr, AlB, AlTi, AlZr, etc.

From receipt of order to despatch of goods, the dedication of Aleastur to quality is paramount. Currently, Aleastur is selling its products to more than 50 countries and is represented all around the world.

Almeq Norway AS  
#306  
Langhus, Norway

Altech  
#939  
Lynghals 10,  
110 Reykjavik, Iceland  
Tel. +354 5252300  
Fax. +354 5252319

Altech has supplied machines, robots and computer systems to the aluminium industry in all the five continents since 1987.

We kindly invite you to our booth No. 939 for presentation of:

- ALTRACK - anode and rod tracking system
- ALVISION - visual inspection system for rods and anodes
- ALCODE - aluminium billet coding and tracking system
- Automatic Metal Skimmers for Crucibles

Innovative equipment for Anode Rodding Shops:

- Stub Protection System
- Stub Straightening System
- Casting Machines
- Stub and Rod Repair Facilities
- Complete Anode Rodding Shops

Altek International Inc  
#100  
http://www.altek-dross.com/  
Exton, Pennsylvania

ALTEK International, Inc. and its staff have been active in the recycling of aluminium dross for nearly 30 years. We have devoted many years to researching and developing dross treatment processes and equipment, always striving to offer the safest, most efficient and environmentally clean systems for the aluminium industry.

OUR SERVICES:

- Worldwide Sales and Marketing of THE PRESS and THE TUMBLER
- Consulting Services
- Custom Design & Engineering
- Training & Customer Support
- Product & Process Development
- Dross & By-Product Marketing Support
- North American Sales Representative for REMETAL, SA (SPAIN) TECHNOLOGY

OUR DROSS RECYCLING TECHNOLOGY:

- PHASE I - THE PRESS, The Hot Dross Treatment System
- PHASE II - THE TUMBLER, The Low Impact Cold Dross Treatment System

Alcentre International, Inc  
#635  
21710 Moortown Circle  
Katy, Texas 77450  
Tel: 281/579-3377  
Fax: 281/579-8819  
e-mail: alucut@texas.net

Melting, holding, and homogenizing furnaces. Cooling chambers, charging machines, casting machines, saws, material handling, lubrication and briquetting systems.

Aluminium Today  
#593  
Redhill, Surrey, England

Working with Industry for the Past Eleven Years

Aluminium Today is a leading international journal for the aluminium production and processing industries. Read widely for its industry news and technology reports. Aluminium Today charts closely developments from around the world. Aluminium Today is published by DMG Business Media Ltd.

Alusuisse Alesa Ltd.  
#216  
Westmount, Quebec, Canada

Serving the industry from their engineering offices in Switzerland, North America and Australia, Alusuisse Alesa has a deservedly excellent reputation in the field of materials handling as well as technologies for the production of alumina and anodes. Furthermore, Alesa offers Alusuisse’s proven know-how for the complete retrofit of smelters.

Alesa specializes in turnkey projects featuring systems which emphasize low energy consumption, operational efficiency, environmental protection, and automation that ensure competitive advantages for the client. Innovative skills and experience in solving clients’ problems have characterized Alesa projects worldwide for over 30 years.

Anker Cast  
#823  
Mississauga, Ontario, Canada

Anker Cast, with many years of experience in Direct Chill Casting systems will feature the latest advances in casting technology, automation and equipment. Our personnel will be in the booth to discuss your applications and methods for increasing your productivity. Come meet with us and discover how you can improve your bottom line.

Applied Research Laboratories  
#910  
Dearborn, Michigan

For over 60 years, Applied Research Laboratories (ARL) has been a leading innovator in analytical instrumentation. ARL’s current product offering includes a series of optical emission (OE) spectrometers known for precision, accuracy and reliability. In addition, ARL manufactures sequential and simultaneous X-Ray fluorescence (XRF) instrumentation featuring: integrated XRD, fast gearless goniometer, small footprint and large X - Y sample changer. Both XRF and OE spectrometers are available as fully automated laboratories.

Asbury Fluxmaster  
#921  
http://www.asbury.com  
Rodeo, California

ASBURY FLUXMASTER, a division of Asbury Carbons, is a vendor of quality consumable foundry materials. Our OS-9000 certified facility in Utah produces a wide range of aluminium...
fluxes, titanium/boron master alloys, degasser tablets, coatings, and injection fluxes. ASBURY FLUXMASTER also markets an entire line of aluminum master alloys produced by our partner, ALEASTUR.

ASBURY FLUXMASTER offers customers the benefits of a professional, knowledgeable staff, a proven line of products, custom packaging options, and quality customer service. Asbury Fluxmaster products are marketed in the United States through our network of Territory Managers and distributors. Fluxmaster also has international agents and sales in over 20 countries.

B&P Process Equipment & Systems
#226
http://www.bpprocess.com
Saginaw, Michigan

B&P Process Equipment and Systems, llc. (manufacturers of Baker Perkins machinery) is a supplier of specialized process equipment for the production of carbon paste, energetic material, plastics, industrial chemicals, and for chemical separation. We have supplied batch anode and cathode paste mixers to the aluminum industry since 1903. Many built since the 1930’s are still in service. In 1952, the aluminum industry production requirements grew, and we offered the polykneader, which is a continuous carbon paste mixer. Today, our batch mixers and polykneaders are used worldwide in the production of carbon paste. B&P also offers a complete line of continuous pusher centrifuges for liquid/solids separation.

BDH Industries
#751
http://www.bdhitech.com/
Chicoutimi, Quebec, Canada

BetzDearborn
#727
www.betzdearborn.com
Trevose, Pennsylvania

BetzDearborn markets engineered water treatment programs that use customized products and value-added services in solving problems associated with boilers, cooling towers, and influent and effluent systems in a wide variety of industries, commercial establishments, and institutional facilities. Hundreds of BetzDearborn researchers simulate the operation of a water system, troubleshoot, and isolate problems in one of the largest water research facilities in the world.

BHA Group, Inc.
#228
http://www.bhagroup.com
Kansas City, Missouri

BHA Group, Inc. is a leading worldwide supplier of replacement parts and services for air pollution control equipment. BHA offers a wide range of innovative products, including Pulse Pleat®, Pleated Filter Elements, BHA-TEX®, expanded PTFE membrane filters, and CPM®. Particulate Detection Systems. Serving more than 50 industries across six continents, BHA is known globally for its quality products and troubleshooting expertise. As we complete our 25th year in this business, there isn’t a problem or situation that we haven’t seen. Call your BHA representative at 1-800-821-2222 or visit our website at www.bhagroup.com.

Blasch Precision Ceramics
#918
http://www.blaschceramics.com/
Albany, New York

Founded in 1979, BLASCH PRECISION CERAMICS manufactures complex refractory shapes via a patented injection molding process. Parts manufactured using this proprietary process have unique qualities that offer distinct advantages such as precise tolerances without machining (+/-0.5%), excellent thermal shock resistance, controlled porosity, sub-particle distribution control, and outstanding resistance to spalling, erosion, and metal penetration.

In addition, parts intended for aluminum applications are treated with a proprietary non-wetting agent. So whether you need low pressure stalk tubes, rotary degasers, thermocouple protection tubes, porous plugs, or immersion heater tubes, Blasch can deliver.

A dedicated staff of engineers is always available to develop materials and design parts that satisfy specific customer needs. We welcome you to visit us at booth 918.

Bloom Engineering Co.
#218
http://www.bloomeng.com
Pittsburgh, Pennsylvania

Representatives from Bloom Engineering Company will be available to discuss Bloom’s complete line of Ultra Low NOX™ burners for the nonferrous industry. These will include 1500 Series Cold Air Burners, 1630 Series Recuperative Burners and 1150 Series Regenerative Burner designs, currently the lowest NOx producing burners in the industry.

Bloom specializes in optimizing the burner combustion pattern required for the application. Burner designs are based on extensive experience obtained in the ferrous and nonferrous industries, and computer aided design techniques, to provide uniform, efficient heating for the process.

BNZ Materials Inc.
#735
http://www.bnzmaterials.com
Littleton, Colorado

BNZ Materials, Inc. consists of two businesses which are appropriate to the metals industry. The Zeleniepoe, Pennsylvania plant manufactures/marks Insulating Firebrick and complementary refractory products such as mortars, aggregates, castables and calcium silicate block. Insulating Firebrick are used in a variety of applications in the metals industry, from carbon baking furnaces to melting and holding furnaces.

The Billerica, Massachusetts plant manufactures a line of calcium silicate boards under the Marinite trademark. They are machined into various parts for conveying, containing, and forming aluminum, lead, zinc and other non-ferrous metals. These parts include spouts, floats, launder, distribution plates, head boxes, baffles, headers, lips, rings, distribution boxes, stoppers, basins, snouts, orifice plates, hot top and ingot mold liners as well as parts in the metal handling and casting systems of many casting machines.

Borgestad Fabrikker AS
#437
Porsgrunn, Norway

Borgestad Fabrikker AS founded in 1887, started as brickworks but grew rapidly into a producer of quality refractories. In 1996, Høganaas Bjuf, with more than 200 years experience of manufacturing refractory bricks, became a part of Borgestad. Today Borgestad is truly international, exporting over half its production and is the largest supplier of non-basic refractories to furnace and kiln related industries.

Products that ensure long life and maximum performance are only one part of the Borgestad commitment to customer satisfaction. Projecting, project control, contracting, installation, repair and maintenance are services we offer to ensure that your furnaces run smoothly with down-time periods kept at a minimum.

Bricmont Inc
#816
http://www.bricmont.com
Canonsburg, Pennsylvania

Owners of the Davy-Swindell aluminum furnace technology.

- Complete engineering for design and construction of melting and holding furnaces, pusher and batch slab reheating furnaces, coil annealing and log homogenizing furnaces, and related equipment.
- Project and construction management.
- Turnkey installations.
- Analysis and consulting services for combustion, heat transfer, thermal stress, thermodynamics, failure, and structural related problems.
High temperature materials technology and heating process development.
Feasibility, planning, layout, and conceptual design studies.
Field engineering, start-up assistance, cost estimating, furnace inspection and evaluation.
Energy audits.
Maintenance and operations training.
Computer-based control systems for melting and holding furnaces, reheating, soaking pits, and annealing furnaces. Dynamic simulation process modeling.

Brochot SA
#643
Tremblay FRANCE

The BROCHOT company designs, manufactures, carries out the installation, provides after sales services, provides spare parts of special machines, and complete plants for the primary aluminium and magnesium industries. With its three departments, Brochet - Syprim - Berger, BROCHOT proposes the full range of equipment necessary for aluminium smelters:

BROCHOT:
- Electric pot ramming machines
- Ingot casting & stacking lines
- Dross handling equipment (Ekumax)

SYPRIM:
- Anode cooling
- Anode handling and storage
- Anode rodding shop

BERGER:
- Special vehicle for anode & molten metal transport
- Furnace charging & tending vehicles

Come to our booth #643 and find out more on our latest developments and discuss innovative solutions to your equipment.

Bruker AXS
#236
http://www.bruker-axs.com/
Madison, Wisconsin

We offer a full range of analytical solutions for X-ray Spectrometry (XRF), X-ray Diffraction (XRD) and Single Crystal Diffraction.

X-ray Spectrometry (XRF): Multi-element analysis in solids and liquids
X-ray Diffraction (XRD): Analysis of matter: from liquids, powders, thin films to perfect crystals
Single Crystal Diffraction (SCD): Structural analysis down to atomic resolution
Training: Get the best out of your instruments!

Cambridge Scientific Abstracts
#638
http://www.csa.com/
Bethesda, Maryland

Cambridge Scientific Abstracts publishes a wide variety of databases covering all aspects of science and technology. Databases are delivered through the new Internet Database Service Version 5.0, featuring site-wide access with unlimited use. Databases offered through this service include METADEX, Sociological Abstracts, Aquatic Sciences & Fisheries Abstracts (ASFA), and the NTIS Database. Other features include the Web Resources Database, which provides searchable links to Internet information sources in the sciences; Recent References Related to Your Search, a citation-only current-awareness service; and full text document acquisition features including Links-to-Full text and Link-to-Holdings modules.

Canadian Overhead Handling
#444
Mississauga, Ontario, Canada

COH specializes in building custom overhead cranes for the most demanding conditions. The exhibit will feature video, photos and literature on some of our installations including powerhouse cranes, automotive (frame handling, frame turnover and body marriage), aluminum industry (automatic anode stacking, hot metal, ingot handling and pot shell transporting), steel mill, transfer cars, automatic bulk handling for the cement industry and aircraft maintenance teleplatforms.

Capco Machinery Systems Inc
#844
http://www.capcomachinery.com/
Roanoke, Virginia

Capco® Machinery Systems, Inc., located in Roanoke, VA is a family owned business and the only remaining American manufacturer of roll grinding machines. The Capco® SuperGrinders are designed for highest accuracy, best productivity and long life time. Capco® SuperGrinders have a very good reputation in the Aluminum Industry.

Capco® will display information material of its families of SuperGrinders for the Aluminum Industry as well as its roll shop computer system RSCS.

Christy Refractories Co
#234
www.christyco.com
St. Louis, Missouri

Christy Refractories has specialized since 1922 in customized refractory solutions for the non-ferrous industry and offers:
- Custom crafted™ fabricated shapes
- Ref-SiC™ (clay bonded) and NITRO-SiC™ (nitride bonded) Silicon Carbide shapes.
- A full line of refractory and insulation products
- Refractory contracting services
- Christy Cast FS™ castable shapes for down spouts, stalk tubes, sucker tubes, launder, nozzles and filter bowls.

We are pleased to introduce a line of ceramic materials for use in high temperature, extreme wear and metal contact applications. Initial results with shot tubes have extended the use life tenfold.

Clayburn Industries Ltd.
#135
http://www.clayburngroup.com
Abbotsford, British Columbia, Canada

Clayburn Industries Ltd. is a privately owned company, in business since 1905. From our head office location in Abbotsford, British Columbia, Canada (50 miles east of Vancouver, Canada) we manage the sales and services of Refractory supply, distribution, engineering and installation throughout Canada, USA and for export.

Clayburn operates manufacturing plants in Abbotsford, BC, and Medicine Hat, Alberta, Canada. We also own and operate a plant in Xianyang, Shaanxi Province, China, under the name of Xianyang - Clayburn Refractory Co. Ltd.

Clayburn's sales and services include the supply and installation of a full range of monolithic products including, dense and insulating castables, plastics and gunite - shotcrete materials. We also offer insulating and dense refractory brick, including high Alumina and Basic products for a broad range of applications.

Information and personal contacts can be made at our booth, number 135, at the 2001 TMS annual meeting in New Orleans.

More information on our Company and its operations can be seen on our web page at www.clayburngroup.com
EMP Technologies Ltd.
#336
www.emptechnologies.com
Burton on Trent, Stratfordshire, United Kingdom

In 1992 EMP Technologies introduced a revolutionary new liquid metal circulation and melting system to the aluminium industry.

This powerful and instantly reversible circulation and resting system has no moving parts, accepts a variety of feedstock, guarantees the highest levels of homogeneity with some clients experiencing productivity increases well in excess of 25%.

With no moving parts, the EMP system is inherently reliable. Many installations have now experienced pumping campaigns well in excess of 4 million tonnes per annum with only a routine service each year.

During the coming year EMP Technologies will be launching new products to further enhance its current product portfolio. The commercial package for the EMP System has also been transformed.

The system has far reaching benefits for both Primary and Secondary aluminium operations and also for companies like aluminium wheel manufacturers.

Email: amp@emptechnologies.co.uk

Elkem Metals, Inc.
#127
Williamsville, New York

Erico Products Inc
#627
www.erico.com
Solon, Ohio

CADWELD® exothermic welding is a process for making large and complex welded electrical connections of aluminum-to-aluminum, copper-to-copper or copper-to-steel in which no external source of heat, such as electricity or gas, is required. The process produces a permanent molecular bond.

CADWELD connections...
- assure that the current-carrying capacity of the connection is equal to or greater than the conductor’s.
- will not loosen in service.
- electrical resistance will not increase with age.
- require no maintenance.
- can be made to any size or shape of conductors.

CADWELD connections can be made in a highly magnetic environment.
FCB Aluminium

#417

http://www.fcb-group.com/
Givors Cedex, France

FCB Aluminium is the world leader in supplying complete green anode plants, with about 40 paste plants supplied all over the world. Depending on Customer’s requirements, FCB Aluminium will supply either complete new green anode plants, or some particular process sections (crushing & screening, fines grinding, proportioning, preheating & mixing, vibrocompacting & anodes cooling...etc). FCB Aluminium is also able to upgrade any anode plant or Söderberg paste plant or to convert a Söderberg plant into a prebake green anode plant while updating the technology and increasing the capacity if needed.

FCB Aluminium is also a major supplier of other units in smelter carbon plants which are:

- Bath grinding with totally air swept autogenous mill
- Anode butts crushing
- Liquid pitch storage
- Spent pot lining grinding

FCB Aluminium has developed a wide range of equipment to be incorporated in such plants.

Fedmet Resources Corp

#646

Montreal, Quebec, Canada

is a multi-source (and multi-lingual) supplier of refractories, brick, electrodes, carbon-based consumables, select raw materials, and other engineered refractory products used in the metal industry.

We supply refractories and refractory related products to the:

- Iron and Steel Industry
- Non-ferrous Metals Industry
- Cement Industry
- Lime Industry
- Other Industries

We provide refractories and refractory related products such as:

- Magnesia-Carbon Brick
- Electrodes
- Slide Gates & Shroud Products
- Silica and High Alumina Brick
- Insulating and Glass Furnace Brick
- Magnesia-Spinel Brick

Fonderie Saguenay

#138

www.foundry-sag.com
Chicoutimi, Quebec, Canada

Located in Quebec, Canada, Fonderie Saguenay is a jobbing foundry producing gray & ductile iron castings in the weight range of 200-15,000 pounds. A large portion, more than 50%, is dedicated in supplying premium parts to the aluminum industry.

You can benefit from 30 years+ of experience in this field where attention to details makes a big difference. From siphon sections, pouring spouts to one-piece hollow siphons and dross pans, solutions are tailor-made to fit your needs.

Lower operating costs are possible with the help of our highly qualified personnel using the most recent software in design and engineering.

Fosbel

#742

http://www.fosbel.com
Berea, Ohio

Aluminum Furnace Repair at Operating Temperature

The Fosbel ceramic welding process exothermically fuses new refractory to the existing parent material while the furnace continues to operate at temperatures in excess of 1300°F. Ceramic welding creates a long lasting, durable bond between the weld mass and the substrate giving extraordinarily long life to the repair areas, in applications such as metal line, roof, side wall and various other repairs. Inspection services are also available to view and identify hard-to-access problem areas. When used in conjunction with Fosbel’s inspection services, ceramic welding is a fast and effective way to keep your furnace in operation without costly downtime.

For further information, visit us at booth #742 or contact us at:

Fosbel Inc.
640 North Rocky River Drive
Berea, OH 44017
Phone: 440-891-0892
Fax: 440-891-0899
Website: www.fosbel.com

Gillespie & Powers

#113

www.gillespiepowers.com
St. Louis, Missouri

- Furnace upgrading and modification-improving efficiency, melt rate and pollution control.
- Saw preheating with our patented reverse flow melter.

- Reporting with our patented mass flow recirculation system, all types of scrap.
- Controlled variable scrap feed systems for conveying, submerging, and salt feed. Two styles of submerging devices.
- Unique designs to resolve specific problems—eliminate water cooling, sealed charging, lid removable roofs, low profile doors and others.
- In the recycling industry, systems include bale breaking, shredding, separation, coating, and holding furnaces including rotary furnaces, and transport ladles.

Glamak Maschinenbau GmbH

#813

Gladbeck, Germany

GLAMA has designed and built heavy-duty Mobile Equipment for Aluminum pot rooms, cast houses and anode rodding shops throughout the world for almost 30 years. The following types of mobile equipment are available:

- Anode Changing Vehicles
- Hammer Crushbreakers
- Tapping Trucks
- Anode Pallet Transporters
- Furnace Charging Machines
- Furnace Tending Machines
- Molten Metal Carriers
- Ladle Charging Trucks
- Butt Cleaning Manipulators
- Coil Lift Trucks

GNA Industrial Furnaces Inc.

#114

http://www.gna.ca
9495 Trans-Canada Hwy
St-Laurent, QC H4S 1V3
Tel: 514-956-1776/F:514-956-0286

GNA Industrial Furnaces Inc. is a supplier of furnaces and related material handling systems to the aluminum industry. Innovative engineering capability and process knowledge make GNA a superior quality supplier of casthouse furnaces and systems equipment for both primary and secondary producers. GNA also has strong capabilities in cathode and anode assembly systems with several installations in the carbon sector of modern aluminum smelters.

Gouda Vuurvast N.V.

#535

Gouda, Netherlands

N.V. Gouda Vuurvast manufactures, supplies and installs high quality refractory materials for close to one century. With production facilities in the Netherlands, N.V. Gouda Vuurvast does supply all major industries throughout the world. The in-
tegrated approach of refractory-research, engineering, production and installation (supervision) is unique and enables N.V. Gouda Vuurvast to guarantee high performance refractory applications. Worldwide supply, flexibility, and long-standing experience make N.V. Gouda Vuurvast your reliable partner for all refractory applications. In the aluminium industry, N.V. Gouda Vuurvast is world-famous for it’s AK 46 S refractory brick used in Carbon Bake Furnaces of all major designs and it’s AK 85 range of refractory bricks suitable for all types and designs of holding and melting furnaces.

Contact us at Sales@goudarefractories.com

Graphite Engineering & Sales
#916
http://www.graphite-eng.com
Greenville, Michigan

Graphite Engineering & Sales Co is a customer-oriented company specializing in cutting and machining graphite products. The level of excellence we demand of our quality and service have provided Graphite Engineering with continuing success and growth.

Graphite Engineering will have on hand knowledgeable Sales Engineers to answer any questions you may have. Graphite Engineering specializes in machining graphite per your specifications.

Graphite Engineering will be displaying the following items:

- nuts and bolts
- brazing fixtures
- degassing shaft and rotor
- canister inserts
- run-out plates
- molds
- secondary billet casting rings
- heating elements
- electrodes
- crucibles
- sintering trays
- sintering boats

Visit Graphite Engineering & Sales Co at booth #916 to discuss your graphite requirements.

Graphite Equipment Mfg Inc
#842
Cleveland, Ohio

Graphite Equipment Manufacturing, G.E.M., is a complete molten metal pump and related equipment manufacturer. We offer a full line of 21st century mechanical pumps, and metal treating equipment. G.E.M. exclusively offers a no contact, no moving parts revolutionary Electromagnetic Stirring System for the non-ferrous metals industry. We are a full service company with more than 75 years of experience in the industry, providing engineering and technical support for our product line.

Our patented Bi-Axial, Multi-Flow centrifugal pump systems and the GEM2100 Electromagnetic Stirrer are of the state of the art technology for the new millennium. Our centrifugal pump technology includes proprietary materials that significantly increases the life of the system and reduces operating costs.

Hamilton Research & Technology
#538
http://www.hamiltonresearch.com
Calcutta, WB, India

Hamilton Research & Technology Ltd. (HART) provides Process Automation for the Aluminium Industry. Specialised in retrofitting of modern Distributed Control Systems for existing Aluminium Smelters and Carbon Anode Baking Furnace.

HART’s distributed control system for Aluminium Smelters uses individual Electronic Pot Controllers (EPC) as Distributed control elements connected in a multi drop master slave mode to the Master Computer System. Proprietary control algorithm are customized to suit parameters of individual smelters for optimizing current efficiency. Systems has been implemented in major Aluminium smelters in India (Hindalco, Malco) and abroad (SaAz & BrAz in Russia).

HART has implemented a third generation Heating Regulation System for Carbon Anode Baking plant. Individual controllers control the air inlet, draught as well as burner firing to provide accurate adherence to the ideal heating curve. Unique wireless infra red communication system designed for communication between field modules and master computer eliminates frequent maintenance.

Hatch Kaiser
#901
http://www.hatch.ca
Mississauga, Ontario, Canada

Feel free to contact us via email at ltmets@hatch.ca

Hatch Kaiser provides engineering and process design, project delivery services, information systems, technology development and implementation, and business consulting to the Light Metals industries: Alumina, Aluminum, Magnesium and Titanium.

Hauck Manufacturing Co
#243
http://www.hauckburner.com
Lebanon, Pennsylvania

Hauck Manufacturing Company designs, builds, and markets a wide range of combustion products. Hauck burners, blowers, and controls products are key components in industrial heat processing equipment used by most industries utilizing thermal energy. In business for over a century, Hauck has earned an outstanding reputation for its products and the loyalty of customers nationally and in world markets.

Hencon B.V.
#334
Ulft, The Netherlands
e-mail address: info@hencon.nl

Special Vehicles for the Aluminium Industry

Backed by more than 45 years experience, Hencon Holland is a main and worldwide supplier in the field of “Special Mobile Equipment” for the aluminium industry.

The delivery program covers the complete range for potroom (Söderberg and prebaked) and for the casthouse, such as:

- Furnace Charging Machines
- Furnace Tending Machines
- Hot Metal Transport and Tilting Vehicles
- Multipurpose Vacuum Cleaners
- Anode Pallet Transporters
- Tapping Trucks
- Anode Changing Machines
- Alumina/Fluoride/Soda/Bath Feeding Trucks
- Anode Covering Trucks
- Cavity Cleaners
- Crust Breakers
- Anode Briquette Feeders
- Rack Raising Trucks
- Pot Trimming Vehicles
- Anode Spading / Tamping Trucks
- Side Loading Forklift Trucks
- Platform Lifting Trucks

At the TMS 2001 Exhibition, Hencon will be present on booth no. 334, where the products of the delivery program will be shown.

Specific new developments are:

- Combined Furnace Charging / Skimming Machine
- Compact Hot Metal Transport and Tilting Vehicle
- New type Multipurpose Vacuum Cleaner H-3000

Heraeus Electro-Nite Co
#126
Philadelphia, Pennsylvania

Heraeus Electro-Nite Co., the world’s largest developer and producer of sensors for the molten metal industry, will be exhibiting several sensors for the primary aluminum smelter.

The Cry-O-Therm™ “Superheat” sensor has been developed to provide the potline with an almost instantaneous reading of the bath and liquidus temperatures. It is being shown that di-
New in our product line is the REFRASIL B200 placement.

furnace curtains and linings and ceramic fiber re-

chemicals, and present no known health hazard.

sensors for the primary aluminum smelter.

Stop by the HEN booth to learn more about our

information collected over the course of the day and

datalogger allows the operator to store the infor-
mation of the cryolite bath. The companion

ture of the cryolite bath. The companion

HITCO is widely known for our REFRASIL high

thermal insulation materials, components, and

a manufacturer of high-performance acoustic and

Gardena, California

www.hitco.com

#132

Hitco Carbon Composites Inc.

Our system can be installed in:

New facilities

Existing facilities where its’ introduction will increase productivity over manual

methods.

used as a back up to friction or flash butt

ewelding when equipment has to be

overhauled or repaired.

MAJOR BENEFITS

Low capital cost

Consistent weld quality

Fluctuating workloads easily

accommodated.

Personnel with no prior welding

experience can be trained to operate

equipment in a short period of time.

Less staff turnover

Hodges Group Inc.

#928

www.hodges-group-inc.com

Portland, Tennessee

Established in 1990, Hodges Group, Inc., is a

family owned and operated company specializing

in turnkey solutions for construction, industrial

maintenance, fabrication and refractory projects. Recipient of the “Industrial Excellence Award” from the Tennessee Department of Eco-

nomics and Community Development, Hodges

Group, Inc., is one of Tennessee’s fastest-growing

companies with a reputation for service and excellence.

Headed by James G. Hodges, Hodges Group,

Inc. is one of the state’s leading construction com-

canies offering specialized refractory products and services. More recently, the company com-

pleted construction of an $8 million aluminum recycling plant located in Seneca, New York for

Scepter Inc.

Tel: 615-325-2741 Fax: 615-325-3128

Email: hodges@hodges-group-inc.com

Holcan Constructions P/L

#312

http://www.holcan.com/au

Queensland, Australia

The Holcan Welding System offers an alterna-
tive to hand, friction or flash butt welding of an-

ode rod studs and adds a degree of automation at a low capital cost.

Our system will outperform manual welding meth-

ods by up to 100%. Simplistic design and proven reliabil-

ity allows for in-house maintenance to be

carried out on all pieces of equipment. Therefore,

eliminating the need for technical assistance from outside sources.

APPLICATIONS

Our system can be installed in:

New facilities

Existing facilities where its’ introduction will increase productivity over manual

methods.

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Within measurements of the liquidus temperature

in industrial cells by the Cry-O-Therm probe is clearly advantageous compared to the alterna-
tive methods for determining the liquidus tempera-
ture.

The Positherm-AL® Type “S” disposable thermo-
couple and DT-280 digital temperature measur-
ing system provide the potroom operator with a

faster, more accurate, and more reliable tempera-
ture of the cryolite bath. The companion

data logger allows the operator to store the infor-
mation collected over the course of the day and
download it directly into the computer at the end of

his shift.

Stop by the HEN booth to learn more about our

sensors for the primary aluminum smelter.
pable of supplying the aluminum industry with the following equipment:

1. Hycast Melt Refining Systems;
2. Hycast RAM (removal of alkaline metal) Systems; and
3. Hycast Billet Casting Gas-Cushion System

In addition to being an equipment supplier, Hycast has high competence in all aluminum caushouse processes, by having skilled personnel in metallurgy, caushouse operation, engineering and automation. Choose Hycast as your technology partner for better operation and profitability.

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**Hysitron Inc**

**#546**

http://www.hysitron.com/

Minneapolis, Minnesota

Hysitron Incorporated is committed to producing, servicing, and designing the world’s leading nanomechanical test equipment.

Hysitron, Inc. manufactures nanomechanical testing instruments especially tailored to measure hardness, elastic modulus, friction, wear resistance, fatigue, nanoscratch and indentation. The TriboScope® and TriboIndenter® offer the unique ability to perform quantitative nanindentation and nanoscratch testing independently or with in-situ scanning probe microscopy imaging.

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**IOM Communications Ltd.**

**#639**

http://www.instmat.co.uk/

London, United Kingdom

**Industrial Heating Magazine**

**#350**

http://www.industrialheating.com

Pittsburgh, Pennsylvania

Industrial Heating is the leading thermal processing journal in the world. Celebrating 70 years as the industry’s largest and most preferred publication, Industrial Heating has over 22,100 monthly subscribers. Written for thermal process engineers, articles deal with nonferrous and ferrous thermal processing technologies and practices.

Please come to our booth and take a FREE copy of our publication.

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**IMS Ltd.**

**#950**

Southport, United Kingdom

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**Innovatherm Company**

**#835**

Butzbach Germany

Tel: 0049-6033-9696-0

Fax: 0049-6033-9696-9

e-mail: innovatherm@t-online.de

Innovatherm Prof. Dr. Leisenberg GmbH & Co. KG is concerned with thermal processes and has specialised in tuning, reconstruction and optimization of existing furnaces. Especially in the field of the anode baking process, innovatherm has gained many years of experience in open and closed pit, single and triple battle furnace technology. Innovatherm continues and improves the former Leisenberg technology for firing and control systems for anode baking furnaces.

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**Jayne Industries Inc.**

**#834**

www.jayneindustries.com

Stoney Creek, Ontario, Canada

Jayne Industries manufactures the complete line of stainless steel V anchors, c clips, studs and threaded products for refractory and ceramic fiber linings. Jayne has provided products & services to the Aluminum, and other Non Ferrous and Ferrous Industries for over 30 years.

Hexmesh and accessories as well as Jayne large volume Refractory Pan & Paddle mixers are manufactured at our Stoney Creek, Ontario Canada facility. Jayne also supplies cast alloy casings and Fibercen stainless steel fibers for Refractory.

Visit our booth #834 to further discuss your anchor and hardware requirements.

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**Jervis B Webb Co.**

**#212**

Farmington Hills, Michigan

Jervis B. Webb Company is a recognized leader in the field of engineered material handling systems and equipment. Our high-volume bulk conveyors bring mined ores from the mine-mouth to the aluminum refinery, using overland transport belt conveyors, automatic ship loaders and unloaders, bucket elevators, and screw conveyors.

In the smelting plant, our full line of power and free conveyors and integrated material handling products are computer controlled to efficiently automate rod/anode assembly, and green or baked anode operations.

**Our product line includes:**

- automated guided vehicles
- power and free conveyors
- roller and heavy-duty chain conveyors, automated storage and retrieval systems

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**Johnston-Vermette**

**#547**

http://www.johnston-vermette.com

Cap-de-la-Madeleine, Quebec, Canada

Johnston-Vermette is a firm of consulting engineers well organised to provide full services in engineering, procurement, project construction and management. One of our strengths is doing specialised machines on a design-build basis.

There are some eighty engineers and technicians in our group, each with hands-on experience in plants with severe operating conditions, particularly for aluminum and magnesium smelters.

Our multidisciplinary team (mechanical, process, electrical, automation and civil engineering) offers services at different stages of a project:

- Feasibility studies
- Preliminary and detailed engineering
- Project definition
- Detailed design
- EPCM
- Construction
- Start-up
- Modifications

Our employees are recognized for two characteristics: quality and communications.

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**Kabert Industries**

**#716**

http://www.kabert.com

Villa Park, Illinois

Since 1960, Kabert Industries, Inc. has been furnishing the aluminum industry with casting supplies. Fiberglass cloth, an inexpensive and effective method of nonferrous molten metal distribution and filtration, is specially woven for the aluminum industry at our plant in Lynn, Indiana, Plain, leno and twill weave cloth styles are woven to specification. Three, four or six strand yarn costs are available.

Also at our Lynn facility, the cloth is cut and sewn into a variety of mini channel bags, trough socks and many other shapes. Other products available include gaskets, vacuum formed shapes, and ceramic foam filters.
KB Alloys Inc
#817
http://www.kballoys.com
Reading, Pennsylvania

KBAlloys, Inc. and Anglo Blackwells Ltd. produce Aluminum-Based Master Alloys including TIBOR®, TITAL®, AND TICAR® grain refiners, binary hardeners and special purpose alloys, including BORAL®, Strontium-aluminum, strontium-nary hardeners and special purpose alloys, in-com performance of your aluminum alloys. Please see production, solving problems and improving the per-
master alloy for your nee-ds, increasing your pro-
eengineers can assist you in creating the best process. Our technical specialists and field sales nes and improving the per-
form of your aluminum alloys. Please see us at our booth or contact us at www.kballoys.com

KMB Affilips B.V.
#909
http://www.kmab filmpjes.com
Oss, The Netherlands

KMB AFFILIPS is dedicated to the develop-ment, manufacture and marketing of specialty master alloys for the metallurgical industry. The company is backed by manufacturing facilities located in The Netherlands (KBM) and Belgium (AFFILIPS). Both KMB and AFFILIPS are fully ISO 9002 approved and offer the most complete range of master alloys for the metallurgical industry. Products for the Aluminum industry include Al2B, Al2A1, Al2Sr as well as a full range of harden-
ers, tablets and briquettes (a.o. Cr, Fe, Mn & Ti). The very complete product range for the Copper industry includes products like CuB, CuCo, CuCr, CuFe, CuMg, CuSi, CuTi and CuZr. KMB AFFILIPS is also the right address for NiMg (complex FeNiMg) additives for super alloy production as well as Pb and Zn master alloys.

For further information please visit our booth 909 or contact us at: Tel. : 31 - 412 - 681311 Fax. : 31 - 412 - 635594 E-mail: info@kmbfilips.com

Kempe International
#724
http://www.kempe.com.au
Geelong, VIC, Australia

Kempe International is a leading global engineering service-based company providing turnkey fa-
cilities, specialised equipment, engineering con-
sulting and maintenance support services to the aluminium smelting industry.

Kempe’s services can be offered independently or as a package and include:
- Engineering Design & Project Management
- Manufacturing
- Equipment Supply
- Turnkey Project Work
- Site Project & Shuddle Coordination
- Maintenance Engineering
- Fluid Power Supply & Services

Our commitment to customer service is supported by an ever growing in-house branch network on a global basis.

Our clients include smelters in Australia, New Zealand, U.S.A., Brazil, South Africa, Mozambique and Dubai.

Keops Technologies Inc
#239
Montreal, Quebec, Canada

Keops will showcase its focus on delivering leading edge end-to-end manufacturing Information Technology solutions to the aluminum industry.

Keops has amassed in-depth expertise for elaborating and implementing Plant Information Management Systems and Real-Time Systems for all sectors of a typical Aluminium Smelter or Rolling operation. These systems have increased the efficiency of a plant and are ensuring an excellent long-term return on investment.

The Keops methodology has been developed over the past decade and has proven to be tremendously successful for our clients. The methodology ranges from feasibility studies, detailed reports, all phases of design, elaboration and implementation of an aluminium plant project.

KHD Humboldt Wedag AG
#337
http://www.humboldt-wedag.de
Cologne, Germany

KHD Humboldt Wedag AG designs, supplies and installs:
- bauxite crushing and grinding systems
- green anode plants
- anode handling systems
- rodding plants
- butts crushing plants
- pot line equipment

and is the world-leading supplier of vibrating com-
- pectors for forming of green anodes, cathode blocks and electrodes, with more than eighty units supplied to the aluminium and carbon products industries.

For more information please visit us at: www.humboldt-wedag.de

Kluwer Academic Publishers
#343
Norwell, Maine

Visit KLUWER ACADEMIC/PLENUM PUBLISH-
ERS Booth No. 343 to browse the latest books and journals in Materials Science. Included are:
- Peters/HANDBOOK OF COMPOSITES, SECOND EDITION;
- Marshall/ENCYCLOPEDIA OF GEOCHEM-ISTRY;
- Sheppard/EXTRUSION OF ALUMINUM ALLOYS;
- Nicholas/JOINING PROCESSES;
- Kaye/POWDER MIXING;
- Hussey/LIGHT ALLOYS
- DIRECTORY AND DATABOOK

Kumera Technology Center
#943
http://www.kumera.com/
Riihimaki, Finland

Kumera Technology Center serves aluminium, copper, and nickel smelters as well as metallur-
gical and mining industries generally, supplying main process equipment and process modern-
ization services.

In addition to supply of equipment, Kumera Tech-

nology Center acts as an independent consult-
ant and has prepared several project documenta-
tions, Feasibility Studies and Evaluation Re-
ports within primary aluminium and alumina re-
fining industries.

Kumera is also a major producer of mechanical power transmissions. The range of solutions cov-
ers practically all industrial applications. For al-
umium smelters, the special application of An-
od-Jacking Systems is available for most of the pot technologies.
Kvaerner Process Technology AG
#435
http://www.kvaerner.com
Pratteln, Switzerland

Since Kvaerner acquired Buss CPS AG, it has since been known as Kvaerner Process Technology (Switzerland) AG or KPT and is still regarded as the world leader for carbon paste technology being the sole supplier to the aluminium industry of the well known BUSS KNEADER for anode paste mixing.

Efficient processing of anode paste using mixing energy in the range of 7 to 10 kWh per ton of paste is vital for the economic production of anodes, being suitable for the high amperage smelting technology. The continuously operating Buss Kneader guarantees uniform paste quality for trouble free anode forming and baking and for smooth operation of the pot rooms.

Over 200 Buss Kneaders, with capacities up to 50 tonne/h in single units, are in operation worldwide. Our unsurpassed services include the supply of genuine spare parts from stock and revamping or upgrading of existing installations.

Additionally we are supplying complete paste plants and as well as our own technology and proprietary equipment for the continuous pitch melting and manufacture of aluminium fluoride.

Light Metal Age
#718
http://www.lightmetalage.com
San Francisco, California

For almost 60 years, Light Metal Age magazine has covered primary production and semifabrication of light metals, primary aluminium and associated nonferrous industries throughout the world. Circulation goes to smelters, rolling mills, extrusion plants, sheet rod and wire mills, foundries and die casting, anodizing, roll casting, coil coating and forging operations.

Recipients are executives, general managers, plant managers, technicians, metallurgists, chemists and engineers responsible for fabrication, production and operations.

LMI Selcom
#207
http://www.lmint.com/cfm/index.cfm
Southfield, Michigan

LaserPour® Molten Metal Level Control Solutions

The LaserPour® Aluminium Level Control Systems from LMI Selcom are high-speed, closed-loop control systems that automatically and precisely regulate the level of molten metal in a mold, launder, headbox or tundish.

Using real-time level measurements, the systems control the metal level from start-up through the filling stage to finished casting. Metal flow from the tilting or stationary furnace is also controlled to assure accurate and consistent fill rate to the desired level.

LMI Selcom’s products for aluminum level control provides automatic, easy-to-use, reliable and virtually maintenance free solutions and they offer proven benefits to the customer.

LOI Inc
#835
http://www.loi.de/en/indexsa.html
Canonsburg, Pennsylvania

LOI, Inc. features the Twin-Chamber melting furnace, for melting contaminated aluminum scrap without using salt. This process is based on low-temperature carbonization and subsequent incineration of the contaminants, making it an environmentally compatible solution.

Aluminum Melting

Delivery of complete systems for melting/recycling of various Al materials and scrap, including flue gas purification, metal circulation using electromagnetic pumping, and charging equipment.

Design and manufacture of:
- Round, top charge, melting furnaces
- Tilting, holding furnaces
- Twin-chamber melting furnace for contaminated scrap

Heat Treatment

Heat treatment systems for structural Al parts (wheels, cylinder heads, axle guides, etc.) for continuous and non-continuous operation, for the following processes:
- Solution annealing
- Quenching
- Artificial aging

Artificial aging systems for extruded Al profiles

CoilAnnealing systems for single or multiple coils

#822
New Rochelle, New York

The state of the art billet casting operation has been designed and built by LOMA Machine of New York. Our “Easycast” Hot Top System of aluminum was developed for the production of aluminum alloy extrusion billets. The unit is based on a closed Mold System patented, and simultaneous casting as many as over 100 multiple strands can be cast in one set-up. Less than 1 percent of the metal is lost in the form of “gate” on top of the billet, which is a great improvement compared to the scrap loss involved in conventional cast billet.

Contact Loma by Fax at 914/636-0344
Visit us at Booth #822

London & Scandinavian Metallurgical
#411
www.lsm.co.uk & www.metallurg.com
London, England & Rotherham, England

London & Scandinavian Metallurgical Co Limited (LSM), a member of the Metallurgy Aluminium Group, seeks to provide Quality, Service and Technology to aluminium cast houses worldwide, with a comprehensive range of specialized aluminium grain refiners, master alloys and compacted powder products.

LSM’s recent £5 million investment in a new TiBAl rod mill will meet growing world demand with consistent quality, increased efficiency, and enhanced customer service. This investment, along with the acquisition of Hydelko AS Norway in March 2000, demonstrates our total commitment to serving the global aluminium community.

LSM achieved QS9000 in February 2000, making them the world’s first producer of grain refiners, master alloys and compacted additives to achieve this accreditation.

We invite you to stop by the new Metallurg Aluminium Group booth for the latest information on our products and services and how they can be used in your applications.

LVE Verfahrenselektronik GmbH
#835
http://www.lve-gmbh.de
Essen, Germany
Tel: 0049-201-26692-0
Fax: 0049-201-26692-20
e-mail: maiwald@lve-gmbh.de

LVE is specialises in the automation and optimization of thermal processes for the aluminum industry. Special knowledge and experiences are available in anode baking and casting technology. Products are ProBake advanced firing systems for anode baking furnaces and CMMS, an optimized charging calculation and melting management system for primary and secondary casthouses.

maerz-gautschi Industrial Furnaces
#311
http://www.maerz-gautschi.ch
Taegerwilen, Switzerland

maerz-gautschi Industrial Furnaces / Aluminium Division in Taegerwilen, Switzerland, offers, as a result of the extensive experience gained in the aluminium industry world-wide, thoroughly developed and proven products ranging from individual items of equipment to complete casthouses.
Melting and Holding Furnaces for casting directly from smelter reduction cells or integrated in remelt lines; Ingot Casting and Stacking Machines for foundry ingots, Horizontal and Vertical Casting Machines for rolling slabs and extrusion billets to produce the universal feedstock for remelt, rolled and extruded products; Heat Treatment Furnaces - batch or continuous type - for further treatment are the main products of the company.

Collaboration with Technical Institutes, experienced companies such as HPI, SAG, VAW and ongoing relationships with our customers creates the inspiration for a prosperous future. maerz-gautschi's use of the latest technology provides the aluminium industry with efficient installations according to latest standards.

MagChem Inc
#124
http://www.magchem.com/
Boucherville, Quebec, Canada

Specialized Casting and Sawing Lubricants
MagChem Inc. is a leader manufacturer and designer of high tech casting and sawing lubricants.

MagChem casting lubricants have been developed to provide the following properties:
- High flash point, low smoke formulations
- Ecological acceptance in the DC process
- High thermal stability.
- Low volatility.
- High lubricity.
- Stable lubricant film at the molten metal-mold interface.
- Low oxidation properties at high temperatures.

MagChem sawing lubricants are critical to ensure the integrity of the surface and the quality of the cut. High heat extraction properties, elimination of staining in heat treat stages and high lubrication values are distinct advantages provided by MagChem sawing lubricants. These lubricants are formulated with anti-oxidation and lubrication additives.

MagChem has also developed a full line of quality products for aluminum wire drawing and strip rolling.

Master Alloys Co.
#915
Munster, Indiana

Master Alloys will be exhibiting its popular 100% canned hardeners. The canned hardener is 100% element in a pre-weighted, moisture-proof aluminum can. The element is not released into the aluminum until it is under the melt which negates any oxidation and results in very high recoveries.

This unique way to alloy aluminum has many advantages over other forms of hardeners. Besides being pre-weighted and moisture proof as stated above, the product is easy to store; reduces inventory; easy to use; fast dissolution; high recoveries; free from contamination; and guaranteed composition.

In addition to the can hardeners, Master Alloys supplies grain refiners and specialty alloys to the aluminum industry.

Allied Mineral Products Inc/
Matrix Refractories Division
#743
http://www.alliedmatrix.com/
Columbus, Ohio

Matrix Refractories Division, Allied Mineral Products, Inc. is a manufacturer of high quality, high technology monolithic refractories designed specifically for the aluminum industry. We provide some of the most advanced and cost effective refractories for the aluminum melting, holding, transfer, and related equipment. We utilize a direct sales force and a distributor network to market our products throughout the United States and the world.

McAllister Mills, Inc.
#824
http://www.mcallistermills.com
Independence, Virginia

McAllister Mills is a world class producer of thermal barrier products. Today, McAllister Mills serves the thermal insulation market with over 1300 off the shelf woven and non-woven products. Our new non-woven family of products is ideally suited for the temperatures and applications seen in the non-ferrous industries. All of our products are produced from thermally efficient raw materials including, E-Glass, M.H.T. Glass, Silica, and bio-soluble vitreous silicate fiber.

Whether you need gasket material for the furnace or engineered systems for your pot line or soaking pit, McAllister Mills will be there to supply a quality product you can count on.

Mechatherm
International Ltd
#637
http://www.mechatherm.co.uk
Kingswinford West Midlands United Kingdom

Mechatherm is a privately owned company, formed in 1973 and has developed a worldwide reputation specialising in furnaces for the aluminium, copper and brass industries. The product range can be split into 4 main categories:-
- Aluminium Foundry - melting and holding, rotary (static and tilting), scrap charging machines, vertical d.c. casting machines, turnkey foundry installations including all necessary ancillary items
- Aluminium Extrusion - including egg heaters and shears, ageing ovens, automatic ageing oven basket handling systems and die ovens

Aluminium Heat treatment - all air recirculated types of furnaces including homogenising, coil annealing, foil annealing, slab heating and solution heat treatment
Aluminium Dross reclamation - joint venture with Jesse Brough Metals, custom designed to suit the type of dross to be recycled. The full range of dross recycling plant includes refining and separation into useable products and remelting of aluminium metallics.
Copper and Brass Extrusion – gas fired billet heating furnaces both roller hearth and walking beam type.

Megaquip Ind Ltd
#238
http://www.megaquip.com/
Email: sales@megaquip.com
Delta, British Columbia, Canada
MEGAQUIP INDUSTRIES LTD. specializes in the design and manufacture of unique heavy duty mobile and industrial equipment utilized in Aluminum Smelters and other industries.
- Our reputation as a “Key Supplier - Partner”, highlights our corporate strengths.
- The ability to define both the task and the required solution.
- The willingness to do whatever is needed for any particular design requirement.

After developing some 49 proto-types, we still hold a 100% success rate.

If you expect satisfaction through value analysis and project teams, we can assure your success - MEGAQUIP - part of your team!!!!

Metal Bulletin LLC
#734
http://www.metalbulletin.com
London, United Kingdom

For more than 80 years, Metal Bulletin has been reaching metals producers, semi-fabricators, traders, end users, recyclers and capital equipment suppliers in more than 100 countries. Metal Bulletin and its sister publication, Metal Bulletin Monthly, are more widely known and respected in the international metals markets than any other metals publications. In addition to MB and MBM, Metal Bulletin Journals publishes numerous research reports, directories and databooks for every segment of the ferrous and non-ferrous metals industries. Metal Bulletin also arranges metals conferences throughout the world and provides an on-line metals information service, www.metalbulletin.com.
Metallurg Aluminium
#411
Burlington, Ontario, Canada
www.metallurg.com
& www.lsm.co.uk
Rotherham - UK, Newfield – NJ,
São João Del Rei – Brazil,
Rjukan – Norway, Mungiua – Spain

Metallurg Aluminium combines the strengths of its five members, London & Scandinavian Metallurgical Co Limited (LSM), Shieldalloy Metallurgical Corporation (SMC), Companhia Industrial Fluminese (CIF), Hydelko AS and Bostian SA to innovatively meet the highest quality requirements of the aluminium industry.

With its five manufacturing facilities, located in the UK, USA, Brazil, Norway and Spain, its professional worldwide sales force and global distribution network, Metallurg Aluminium offers the aluminium industry the highest level of service in the supply of aluminium grain refiners, master alloys and hardeners.

Our wide range of compacted powder products includes Chrome, Copper, Iron, Manganese, Nickel and Titanium in our flagship ALTAB™ products and briquettes.

We continuously provide innovative products aimed at reducing costs in the cast house. Recent innovations include TCAI 315™ & TCAI 330™ grain refining rods, 8% Boron Al (8BAI™) rod & castcut™, Sr-Al & TiBAI Quicksol Bar™, Strobloy™, TiBAI® and ALTAB™ 100% Ti.

Consistently high quality is secured through statistical process control and rigorous quality assurance programs. All Group members are registered to one or more of the following quality standards: QS 9000, ISO 9001, or ISO 9002.

We invite you to visit the new Metallurg Aluminium booth for the latest information on our products and services and how they can be used in your applications to improve yields and lower costs.

Metallurgical Society Of CIM
#125
3400 de Maisonneuve W. #1210
Montreal, QC H3Z 3B8 CANADA
Phone: (514) 939-2710
Fax: (514) 939-9160

The Metallurgical Society (MetSoc) of the Canadian Institute of Mining, Metallurgy and Petroleum was formed in 1967 under the umbrella of CIM to serve the needs of all Canadian Metallurgists working to transform ores to metals and other useful commercial products. MetSoc, 1,700 strong, provides an open forum for engineers, scientists and technical personnel and students to exchange and share new knowledge. MetSoc also acts as a catalyst in enhancing the growth of its members who are engaged in all phases of the minerals, metals and materials industry.

To enhance the exchange of information MetSoc publishes a number of proceedings that touch a number of topics including:

- Hydrometallurgy of non-ferrous metals
- Light metals
- Pyrometallurgical operations, covering the smelting of sulphides and laterites
- Iron and steel developments
- Technology of zinc and lead processing
- Waste processing and environment issues
- Computer applications
- Mineral processing

MetSoc would like to take this opportunity to invite you to visit Booth 125. See you in New Orleans!

Metaullics Systems Co. L.P. #511
www.metaullics.com
Solon, Ohio

Metaullics Systems is a leading supplier of equipment for handling and processing non-ferrous molten metals. Metaullics manufactures a complete line of molten metal pumps for circulating and degassing aluminium in reverberatory furnaces and transfer pumps for controlled, safe metal transfer. Metaullics is a leader in the field of re-usable molten metal filters, machined oxidation resistant graphite, and scrap submergence systems. Metaullics’ state-of-the-art L-Series pumps will be displayed during the 2001 Exhibition. Metaullics will also display its revolutionary Low Turbulence Scrap Submergence (LOTUSS®) melting system. See us at booth 511 and visit our web site at www.metaullics.com.

Mid-Mountain Materials #642
www.mid-mountain.com
Seattle, Washington

Mid-Mountain Materials Inc. is an international company specializing in the manufacture of advanced high temperature resistant industrial textiles, coated fabrics, custom sewn parts and technical insulation. With the changing needs in the late seventies to replace asbestos bearing products, Mid-Mountain materials has been proud to offer our line of Quartex™ (“Q”) refractory textiles. It’s high resistance to a variety of chemicals, low porosity, excellent abrasion resistance, high temperature resistance and general high strength make “Q” one of the toughest textile products in the world.

We at Mid-Mountain welcome the opportunity to work with your engineers, purchasing staff and other plant personnel to find better ways to protect your people, your equipment and our environment.

Contact us at: Telephone: 1-800-382-2208

Milward Alloys, Inc. #913
http://www.milward.com
Lockport, New York

Milward Alloys, Inc. was founded in 1948 and continues today as a major supplier of copper and aluminum based master alloys. Included among these are a variety of grain refiners, modifiers, hardeners and degasifiers produced for the primary and secondary aluminum industry, as well as brass mills, tube mills and brazing rod manufacturers.

Our 15% strontium aluminum rod continues to be a unique product in the industry. In addition to the standard titanium boron grain refiners, Milward offers a number of titanium carbon alloys for special applications. For more information contact us at www.milward.com.

Minteq International Inc. #745
www.mineraltech.com
Slippery Rock, Pennsylvania

MINTEQ International Inc. is one of the world’s largest producers of monolithic and specialty refractory materials for the steel, cement, glass, and non-ferrous metals industries. MINTEQ is a resource and technology based company with R&D facilities in five locations around the globe.

One of our newest product lines is the proprietary STARFLOW family of products. STARFLOW products were developed for high temperature maintenance and repair of melting and holding furnaces, troughs, ladles, and molten metal containing vessels. STARFLOW products provide the following benefits:

- Furnished as a dry product that requires no addition of water
- No mixing required
- No dusting during application (safe, environment friendly application)
- Contains no pitch or other organic additives
- Wets out and flows upon exposure to heat
- Sets up within minutes
- Eliminates furnace shut down
- Eliminates costly downtime for maintenance and repair

Stop by our booth at the TMS in New Orleans for a STARFLOW demonstration!

Moeller Electric GmbH #339
http://www.moeller.net
Bonn, Germany

Klöckner-Moeller is the competent contact for power management and automation, with almost 7,000 committed employees, 23 production plants and 350 sales offices around the world. Klöckner-Moeller develops, produces and markets LV...
Murlin Chemical Inc
#719
www.murlinchemical.com
West Conshohocken, Pennsylvania

Murlin Chemical, Inc. manufactures both natural and synthetic bone ash at its plant in West Conshohocken, PA, U.S.A. These products are supplied to the world wide non-ferrous metals industry.

Aluminum Grade Natural Bone Ash is accepted by the Aluminum Industry as the premier release agent. Application of bone ash to a mold, a refractory trough, a surface, or a tool, which will be exposed to molten aluminum provides a consistent barrier against attack by the molten metal. Quick release of a casting or any solid metal, which may cling to the exposed surface, is a major benefit.

Plan to visit us at booth 713 to learn more about the advantages gained by using bone ash in your foundry.

You may contact us any time at (phone) 610-825-1165, (fax) 610-825-8659, e-mail at general@murlinchemical.com or visit our web page at www.murlinchemical.com.

Nalco Chemical Co
#701
www.nalco.com
One Nalco Center
Naperville, Illinois 60563-1198

Nalco’s newest offering, Nalco Industrial Outsourcing (NIO), can design, build, finance our ownership or acquisition, operate and maintain almost any water, energy and waste applications in your plant. Nalco also provides the same conventional water treatment programs and services that have improved the operating efficiency and productivity of facilities around the world.

Nalco’s treatment of water from influent to effluent is now complemented with surface treatment technology for cleaning and finishing. Nalco has the unique ability to evaluate the quenchability of your water on your plant site. Quenchability can have a significant impact on issues like yield, product quality and roll life.

National Refractories & Minerals Corp.
#222
http://www.nrmc.com
Columbiana, Ohio

National Refractories & Minerals Corp. will be featuring the following products at the 130th TMS Conference in New Orleans:

- KRIAL 47A a unique formulation that is ideally suited for the flue and headwall shapes in carbon baking furnaces. The product has been tailored in such a way as to maximize its resistance to silica depletion and creep.
- SC-99108 XR a unique 85% alumina low cement castable that has strengths superior to nitride bonded silicon carbide brick. SC-99108 XR finally gives the customer a true brick in a bag!
- FUSION a unique fused silica technology that is taking the industry by storm in such areas as: troughs, filter bowls, ladle linings, port blocks, impeller blades, stopper rods, etc…

Niton Corporation
#447
http://www.niton.com
Billerica, Maine

NITON® Corporation, headquartered in Billerica, MA, specializes in non-destructive alloy analysis instrumentation.

NITON’S XL-800 Series x-ray fluorescence (XRF) alloy analyzer was the best-selling portable alloy analyzer of 1999. At just 2 1/2 lbs., the XL-800 is the only truly hand-held high-performance alloy analyzer in the world. It is the ideal choice for fast nondestructive analysis and rapid grade identification of ferrous, nonferrous and high-temp alloys.

The new PMI-Master portable Arc/Spark spectrometer provides near lab-quality analysis of carbon as well as other alloying elements and trace contaminants in metal alloys. The PMI-Master is ideal for analysis of carbon steels, L-grade stainless steels, aluminum alloys and more.

NKM
#442
Rotterdam, Holland

NKM and the Aluminium Industry

NKM products have found their way around the world since 1933. Ore transport installations exported to Beire, floating cranes to India and Turkey, custom designed loading- and transport installations to New Zealand, India, Hong Kong and Portugal, salt reclaimers to the United States, concrete loaders to Venezuela and since 1963 specially designed cranes and machines for aluminium reduction plants. Hundreds of these cranes and machines have now been installed worldwide.

Over the years, NKM has constantly upgraded and improved its equipment for the aluminium industry. Besides crane transfer systems NKM supplies the aluminium industry with cathode cranes, baking furnace cranes, pot tending cranes, jacking frames, anode stacking cranes, crucible cleaning machines, pipe cleaning machines, pre-heaters and refractory heaters, billet handling cranes and casthouse cranes.

See us at booth 442, or phone or fax NKM in Holland; tel: +31 10 4873462 fax +31 10 4873478
Noell Crane & Service Inc  
#545  
http://www.noellcrane.com  
Herndon, Virginia

**Products**
- Pot Tending Cranes
- Cathode Removal Cranes
- General Purpose Cranes
- Crane Transfer Gantry
- Anode Jacking Frames
- Anode Clamps and J-hooks
- Roof filling Spouts
- Retractable Bumpers
- Crane Runway Sectional Raising Beams
- Carbon Baking Furnace Tending Cranes

**Services**
- Field Erection Supervision and Commissioning
- Lump Sum Field Erection and Commissioning
- Maintenance Contracts

North American Manufacturing  
#634  
http://www.namfg.com  
Cleveland, Ohio

North American Manufacturing is a solution provider for combustion and process control systems. The company produces and sells combustion hardware as well as complete systems including installation drawings and complete control systems where applicable.

North American has been providing systems for the aluminum industry for better than forty years, specializing in energy savings and melt rate optimization.

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Oak Ridge National Lab  
#908  
www.ornl.gov  
Oak Ridge, Tennessee

ORNL is a multi-program science and technology laboratory managed for the U.S. Department of Energy by UT-Battelle, LLC. Scientists and engineers at ORNL conduct basic and applied research and development to create scientific knowledge and technological solutions that strengthen the nation’s leadership in key areas of science; increase the availability of clean, abundant energy; restore and protect the environment; and contribute to national security.

**Basic Energy Sciences:** The DOE-ER Office of Basic Energy Sciences supports a broad spectrum of research in the physical sciences at ORNL through its Materials Sciences, Chemical Sciences, and Engineering and Geosciences divisions.

The Materials Sciences subprogram supports fundamental materials R&D including neutron scattering; synthesis and characterization of new materials; high-temperature materials; ceramic processing; superconductivity; surfaces and thin films; synchrotron research; ion beam, laser, and plasma processing; and theoretical studies for advanced energy-related materials. This program also supports four user programs:

- Surface Modification and Characterization Research Center
- Neutron Scattering Research Facilities at the HFIR

Two programs co-sponsored by ORNL and the Oak Ridge Institute for Science and Education:
- ORNL-ORISE Synchrotron Organization for Advanced Research
- Shared Research Equipment Program

**Opsis**  
#123  
http://www.opsis.se  
San Marcos, California

Opsis Inc. is the North American supplier of Open Path Monitoring systems for air quality monitoring, continuous emissions monitoring (CEM) and process control. The ultraviolet DOAS technology, developed by Opsis, has received international approvals and provides customers with reliable system solutions for a number of applications. All systems feature dynamic calibration capability and simple hardware configurations. The ambient system is an EPA approved equivalent method for \( \text{SO}_2, \text{NO}_2 \), and \( \text{O}_3 \).

Other Opsis benefits include complete DOAS system packages, fully automatic monitoring systems, multi gas and multi path systems, fast, continuous measurements, modular construction which allows expanding or updating of existing installations and simple report generations.


**PcO Raadts**  
#543  
www.pco-raadts.de  
Rees, Germany

Tel. (Germany) +49 - 2851-2763  
Fax. +49 - 2851-2784  
e-mail: pco-raadts@t-online.de

PCO - Purging Control systems

**PCO** is:
- excellent for operations such as pre-melting, melting, flushing, cleaning, temperature equalising, homogenisation and auto bursting
- simple to operate, manually or automatically
- controls every consumer (porous plug, impeller, lance pipe) individually, irrelevant of their numbers
- guarantees a homogeneous and constant flow rate (volume and time), independent of any variation in back-pressure of each consumer
- operates through predetermined and pre-selected programs with regard to flow rate, time and production process
- allows individual flow rate for any individual consumer at the same time
- automatically sets free a by-pass operation in order to blow-free any afflicted individual consumer after P-Max has been reached (as a result of a clogging)
- shuts down without delay and automatically when chlorine alarm has been set by chlorine detector
- flushes automatically the total system free of any residual mixed CI / N or Ar gas in the case of an emergency
- an almost maintenance free system
- possesses redundant and built in alarm systems
- guarantees highest safety for its users
- a very robust, long life built product
- reduces tab-to-tab time
- a highly efficient and reliable product at a reasonable price

**Parker-Hannifin**  
#925  
Des Plaines, Illinois

**Pechiney Corporation**  
#707  
Mamaroneck, New York

With an annual alumina production of nearly 2 Mt. and aluminum production of 1 Mt., Pechiney is one of the major producers.
The Aluminum Pechiney Technology has always been very innovative and has set many records, particularly for power consumption, cathode performances and environmental protection (more than 2800 AP 18 cells and 2,000 AP-30 cells are operated around the world).

Pechiney Aluminium Engineering markets the Pechiney Group’s Technologies for casthouse equipment. They are specialists in the areas of degassing and filtration, including its recently improved Alpur TS system, automatic DC casters and continuous strip casters using the Jumbo 3C process. They are also suppliers of technical assistance in the manufacture of flat-rolled aluminium products, for rolling and finishing or basic engineering, and operating know-how for turn key plants.

Pilbrico Company
#229
Chicago, Illinois

Pilbrico Company celebrates its 85th year as an American owned and operated manufacturer and installer of monolithic refractories. Pilbrico’s product line is composed of a wide range of plastics, castables and maintenance materials that can be installed through various methods, such as our patented HyRate and mini-HyRate plastic gunning, pumping, Plshot, gunniting, etc. Stop by our booth to discuss how Pilbrico’s experience and “state of the art” consistent products, along with your local area representative can successfully solve your refractory problems in a timely fashion.

Port of Longview
#836
www.portoflongview.com
Longview, Washington

Port of Longview is a deep water port authority with full-service bulk and breakbulk terminal facilities and a 300-acre industrial park on the Columbia River.

Port Facilities: The Port of Longview’s import and export terminal facilities on the Columbia River in Washington state are capable of handling your bulk and bulk breakbulk moves to and from the Pacific Northwest. Longview specializes in bulk handling with an emphasis on chemicals, minerals and fertilizers and bulkbreak commodities such as steel.

Industrial Park: The Port’s 300-acre industrial park is a great site for expanding iron, aluminum and steel manufacturers and processors requiring excellent transportation connections. Dual rail service and tax advantages in General Purpose Foreign Trade Zone #120 offer companies a competitive edge.

Contact: For more information, stop by our booth #836 or call (360) 425-5305.

Precimeter, Inc.
#422
http://www.precimeter.com
Birmingham, Michigan

Precimeter’s business idea is to be the leading manufacture of non-contact measurement and control products for industrial applications with the highest total customer value. This will be achieved through quality, reliability and service mindedness.

Precision Inc.
#923
Sisterville, West Virginia

THE PRIMARY ALUMINUM INDUSTRY’S MOST REMARKABLE SUPPLIER.

Precision, Inc. is a 40-year old supplier of quality goods and services to the primary aluminum smelting industry.

- Electrical Bus
- Copper Fabrication
- Aluminum Fabrication
- Steel Fabrication
- Design
- Material Handling & Logistics Support
- Dross Processing

Procedair Industries / FCB Aluminum
#417
www.procedair.com
Montreal, Quebec, Canada

Supported by the experience of over 120 installations worldwide in the aluminum industry, PROCEDAIR provides technical and economical solutions for any environmental project, either for greenfield smelter or revamping of existing plants, so as to meet the most stringent air pollution regulations. Technologies on display will include alumina injection dry scrubbing systems for potline and anode bake furnaces, coke fines injection dry scrubber for carbon plants, SO2 wet scrubber using soda ash or sea water, lime/sodium bicarbonate injection dry scrubber for delacqueing kilns and melting furnaces.

Pryor Giggey Co
#436
Chehalis, Washington

Pryor Giggey celebrates its 53rd anniversary in 2001. We have been providing refractory products to the industry with unparalleled customer service and refractory innovation throughout our history. We have a long customer list of satisfied customers in the aluminum and copper producing industries and continue to strive for better performance and lower refractory cost to the customer. We are the exclusive licensee of Lafarge Refractaire Monolithiques for North America, which provides us with the state of the art in monolithic technology for solving customer demands in problem applications and severe service conditions. We are the first producer to offer true self flow technology and to provide successful veneer repairs.

We have now introduced the most recent innovation in refractory installation—High density gunning—the low cost repair alternative to shotcrete. When you have a problem application and want the first team to help solve your refractory needs, give us a call at 1-800-4-HOTROX (800-446-8769) or stop by our booth at the TMS exhibition, #436.

Pyrotek Inc.
#400
http://www.pyrotek-inc.com
Spokane, Washington

Pyrotek is committed to the advancement in metal processing technology worldwide. With extensive technological resources, Pyrotek offers aluminum producers a comprehensive and accomplished range of high-temperature products and metal treatment systems.

Pyrotek products include:
- SNIF® Degassing Systems & Replacement Parts
- PAL Degassing Equipment & Flux Injection Systems
- HD-2000 & PHD-50 Degassing Equipment
- Insura® Insulating Refractory Shapes
- Sives® Ceramic Foam Filters & Glasweve
- Promag® Refining Agents
- Coveral® Fluxes
- Perlube® Lubricants
- O’-Sialon Industrial Ceramics
- Insulating Launder & Launder Covers
- Graphite Components

Consult Pyrotek for custom engineered solutions for all your consumables and metal processing needs.

Pyrotek, Inc., 9503 E. Montgomery, Spokane, WA 99206, USA Phone: 509-926-6212 or Fax 509-927-2408

R&D Carbon Ltd.
#623
Zurich, Switzerland

R&D Carbon Ltd. serves the petroleum coke, pitch and aluminum industries.

- Research and Development: Basic research is carried out to better understand relationships between raw material properties and process parameters.
Our products and services include:

- Supplier of refractory for the light metals industry.
- Rex Roto Corporation is a leading world-wide
- Fowlerville, Michigan
- http://www.rexroto.com
- #317
- Rex Roto Corp
- Strongsville, Ohio
- SciDoc Inc

Resco Products Inc

Norristown, Pennsylvania

Resco Products, Inc. offers a full line of specialty refractories for monolithic repairs and perpetual linings for applications such as carbon baking, primary smelting, secondary melting and foundry operations. These monolithics and specialty refractories invariably provide the dependable performance you require under the harshest conditions and in the most corrosive atmospheres.

SciDoc Inc provides assistance in the preparation of scientific documents such as journal articles, proposals, and technical presentations. The services provided include:

- Technical Services: Raw material evaluations for anodes, cathodes, and other carbon products are performed in bench or pilot plant scale. Technology audits and in-plant process optimisation are carried out at customer’s plants.
- Laboratory Test Equipment: Easily operated and reliable test instruments have set world-wide standards for testing carbon products.
- Bake Furnace Process Control: An integrated bake furnace firing and process control system guarantees high productivity, low energy consumption and consistent anode quality.
- Training: Special training courses in the basics of anode manufacture are offered in our training centre or at customer’s location.
- Engineering: A new process for green anode manufacturing allows the reduction in investment and operating cost. In cooperation with leading engineering companies our patented anode technology is marketed worldwide.

Radiometric Corp

#846
http://www.rmggauges.com/
Gaithersburg, Maryland

Resco Products Inc

#344
www.rescoproducts.com
Norristown, Pennsylvania

Rex Roto Corporation is a leading world-wide supplier of refractory for the light metals industry. Our products and services include:

- Pyroform refractory for hot-top billet casting systems and ingot distribution pans
- High Performance Metal Delivery Systems from furnace to casting station
- Electric heaters for launder systems and filter bowls
- Thimbles, inserts, joint and patch compounds and other consumables

Rex Roto Corporation has a team of Engineers, Designers, and Metallurgists to aid in the complete design of your Metal Delivery System. Come visit us in Booth #317 to discuss your application.

Rexroth Mecman Pneumatics

#912
http://www.us.rexroth.com
Lexington, Kentucky

RHI Refractories America

#723
Pittsburgh, Pennsylvania

RHI will display key brands for both metal contact and carbon bake applications. Visitors will find information about high performance products such as GREENKLEEN, VERSAFLOW, and PNEUCRETE monolithics for aluminum contact as well as KALA brick which is an industry standard for carbon bake furnaces. INSWOOL ceramic insulating products will also be highlighted.

Robin Industries

#838
Samoreau, France

Saint Goab Industrial Ceramics

#217
Worcester, Massachusetts

The Non-Ferrous Metals Group, a business unit of Metalurgy Solutions, Saint-Gobain Ceramics & Plastics, Inc. will exhibit at the 2001 TMS Annual Meeting Exhibition. The Non-Ferrous Metals Group represents the former AnnaWerk, Norton Company, Carbomunium Company and Savoie Refractaires.

Non-Ferrous Metals provides specialty refractories for molten metal containment and other critical metal contact applications. Refractory products for the aluminum industry include reduction cell sidewall bricks and blocks, melting/holding furnace ramp and hearth bricks, castables and mortars, immersion heater and thermocouple protection tubes for degassing equipment. Non-Ferrous Metals also supplies specialty and proprietary materials for critical areas in filter systems, molten metal pumps, troughs and dry vibration cements for coreless induction melting/holding furnaces. Non-Ferrous Metals products for the copper industry include shaft furnace liners, bricks, burner components, associated mortars and ramming cements, low moisture/high strength castables for launders, spoons and other critical metal contact applications.

Scharf-Westfalia GmbH

#434
http://www.dbt.de
Lunen, Germany

SCHARF WESTFALIA

The SWS Scharf Westfalia GmbH (SWS) was established in 1972, emerged from the former Gewerkschaft Eisenhütte Westfalia, later Westfalia Lünen and finally Westfalia Becorit.

Since 1995 SWS is fully owned by Deutsche Bergbau - Technik GmbH (DBT). DBT is a 100% subsidiary of RAG Ruhr Kohle AG.

The company is located in Germany in the cities of Lünen, head office (North Rhine Westphalia) and Uelzen (Lower Saxony).

Scharf Westfalia designs, develops, manufactures, and supplies turn key plants and systems as well as components for the Aluminium Industry.

The Aluminium division is responsible, amongst others, for state-of-the-art turn key Anode Rodding Shops, Anode Handling and Storage, as well But and Bath Treatment Plants for the Aluminium Industry.

The following systems are presenting our main product line:

Turn key plants, as well as individual equipments, for:

- Anode Rodding Shops
- Cleaning and handling of bath and butt material
- Baked and green anode handling and storage systems
- Cooling tunnel for anode butts and bath material
- Crucible cleaning
- Fully automated transport system for green and baked anodes
- Anode traverse beam for the handling of anodes in the electrolyte cell
SciDoc, Inc. will save you time and increase the chances that your documents and presentations will be well received. Stop by the SciDoc booth for information on a special show discount.

Seco/Warwick
#722
www.secowarwick.com
Meadville, Pennsylvania

SECO/WARWICK produces custom engineered furnace systems for ferrous and nonferrous metals. We provide the complete spectrum of services for efficient furnace systems - beginning with initial support services, continuing through equipment manufacturing, installation, start-up and training. We specialize in products for the primary aluminum industry.

Visit booth 722 to meet with representatives from our Aluminum Process, Solution Heat Treat and Moltten Metal teams.

Are you getting maximum benefit from your heat treating systems? Ask us about our Aluminum Furnace Seminars offered in April and October.

Learn more about SECO/WARWICK and register for our upcoming seminars at www.secowarwick.com.

Selee Corporation
#200
http://www.selee.com
Hendersonville, North Carolina

SELEE Corporation is the premier supplier of ceramic foam filters, advanced ceramic products and services for use in the metal casting industries.

SELEE has maintained market and technical leadership by developing strong partnerships with customers. These partnerships allow customers to share SELEE resources to satisfy their quality and profitability goals.

SELEE Corporation is the only ceramic foam filter and refractories supplier in the world to achieve ISO 9001, QS-9000 and Ford Q1 quality certifications. This means SELEE Corporation will deliver to you on time the best quality products in the industry.

A partnership with SELEE provides our customers access to these resources:

- Commitment to Innovative New Products
- Advance Engineered Filter Bowls, Preheat Systems and Refractories
- Applications Engineering Team
- Fully Equipped Metallurgical Lab
- Dedicated Customer Service Team
- Global Direct Sales Force and Distribution Network
- R&D Pilot Plant Facility for:
  — Rapid Prototyping
  — Innovative New Product Development

- TOM Programs that Provide:
  — Continuous Improvement
  — Full Product Certification
  — Self Directed Work Teams
  — On-site Customer Training Programs

Sentech Corporation
#107
http://members.aol.com/sentechAZ
Tempe, Arizona

Sentech Corporation has been in business for more than 15 years. We produce a variety of capacitance based, non-contact, metal level measurement sensors. These sensors are designed to work in mold, headbox, launder and similar level control applications. Additionally, we produce actuators that can be used to control the flow of metal from stationary furnaces, along troughs, or into ingot molds. Our electronic MTS300 rack system allows our sensors and actuators to be integrated together and controlled from a single operator interface. Our MTS300 rack can operate as a stand-alone control system with internal PID loop functions or it can easily interface with customer PLC equipment to provide fast, reliable, metal level control.

Sermas Industrie
#829
http://www.sermas.com
Saint Quentin Sur Isere, France

SERMAS INDUSTRIE is a customer oriented company specializing in design, construction and commissioning of machines for the aluminum industry:

- Complete casting systems for slabs, T-bars and billets including:
  - Band Saw (cut rate up to 1100 sq. in/min)
  - Chips suction system
  - Handling equipment (downenders, conveyors, stop positioner, crops evacuation, etc.)
  - Packaging equipment (scale, stamping, ink marking stacking, strapping, etc.)

- Typical output:
  - One cut T-bar every 57 seconds
  - One slab (cut at both ends) every 8 minutes
  - Ladle skimming and cleaning machines
  - Cathodes machines
  - Anode machines (cooling tunnel, handling systems and rodding show equipment)

SETARAM
#246
http://www.setaram.com
Caluire, France

For more than 30 years, Setaram has been producing anode baking furnace firing and regulating systems for the aluminum industry.

The Setaram Firing Systems are available for any type of ring furnace (open or closed type) and for any type of fuel (light or heavy fuel oil, natural gas, coal gas or LPG).

Setaram proposes a complete hardware and software package to control and monitor the whole anode baking process through the following functions:

- central regulation
- real time supervision
- data management

The heating programming and regulating techniques are operating in aluminium plants all over the world.

Dedicated to constantly improving our technology, Setaram Firing Systems set the standards for the industry.

Silver Needle Inc
#351
Kellogg, Idaho

Aluminized and Vinex® Clothing: Protection From Molten Aluminum and Metal Splash

Our company started in a foundry: 13 years working and producing safe yet comfortable clothing. We listen because we know the frustrations of not being understood, of wearing clothing that doesn’t fit, rubs, scratches and confines. Give us the opportunity to work for you and see if Silver Needle can make a difference.

WE ARE YOUR SOURCE FOR:

- Technical briefs: Discover which fabric will protect the best
- MSDS for fabrics
- Test kits: Determine which fabric works best. Do your tests on site!
- Design requirements

Information Central - Call our toll free number: 1-800-863-7733

Skamol, Inc.
#542
http://www.skamol.com
Amherst, New York

When it comes to insulating materials knowing the right solution can make the difference in thermal efficiency, energy savings and lifetime of the lining. Skamol has an extensive know-how on optimizing insulation solutions in aluminum reduction cells, carbon baking furnaces and cast
house furnaces. We offer a wide range of thermal insulating products for service temperatures up to 1150°C (2102°F) including bricks, blocks, slabs and special shape pot-set insulation to fit individual cell designs. New products have been included in the product range and will be presented at the TMS show.

STAS
#806
http://www.stas-unigec.com
Chicoutimi, Quebec, Canada

LA SOCIÉTÉ DES TECHNOLOGIES DE L’ALUMINIUM S.T.A.S. LTÉE

STAS is a dynamic and entrepreneurial company specialising in the commercialisation of new technologically advanced equipment. Industry sectors include aluminium and mines serving a global market place on a custom-made basis through the service of representatives in the Americas, Europe, Asia, Australia and Africa.

STAS is located in Quebec, Canada. World-class R&D facilities provide a continuing flow of new equipment to be commercialised; they include the Alcan R&D Centre, the Noranda Technological Centre and the Hydro-Québec Research Centre at Shawinigan.

STAS is a recognised leader in its innovative abilities to develop and fabricate sophisticated equipment which lower costs for its customers as well as improving quality - using the latest in programmable automation controls. Examples include compact degassing equipment, rotary injectors, cross coolers, filters, crucible cleaners, automatic guidance systems, etc.

Stein Atkinson Stordy Ltd
#115
http://www.s-a-s.co.uk
Wombourne, Wolverhampton, United Kingdom

Stein Atkinson Stordy Ltd (SAS) has over 85 years of experience in supplying the Aluminium Industry with a variety of equipment including High Speed Coil Annealers, Foil Annealers, Melting Furnaces (Tilting, Static, Round Top, Side Well), Holding Furnaces (Tilting & Static), DC Casters, Shoe Pusher Furnaces & IDEX® Decoating/Drying Technology.

Projects can be totally installed, supply only or even partial design. We can also advise on upgrading existing equipment. Our highly regarded In-house Systems Division, designs, tests and builds Control Systems (Instrument, PLC or SCADA) to meet the end user’s exact requirements.

Stellar Materials Inc
#906
Northville, Michigan

Thermbond is a unique refractory technology with features and benefits unavailable in traditional refractories. Thermbond is completely and naturally non-wetting to aluminium. Thermbond bonds permanently to other refractories so existing linings may be veneered and repaired rather than replaced.

Thermbond may be cast, troweled, gunned, hot-gunned, pumped, or rammed for permanent repairs or new installations.

Superior Graphite Co
#645
Chicago, Illinois

33 Metal Producing
#245

Techno Car & Engineering
#534
www.techno.it
Limena, Padova, Italy

Over the last 40 years, Techno has been devoted to the solution of technical problems connected with the Aluminium Industry. Among the most significant machines produced by Techno are Anode Changers, Tapping Trucks, Feeder Vehicles, Crust Breakers, a wide range of heavy duty Transporters and the most up-to-date Furnace Tending Vehicles.

Techno is also supplying to Aluminium Company fixed plants, such as Anode Butts Cleaning Stations and Ladle Cleaning Stations, tailor-made equipment and a wide range of services.

All of Techno’s products and services propose new, environmentally friendly and cost-effective solutions to Aluminium producers.

Thermal Ceramics & Thermic Refractories
#517
http://www.thermalceramics.com
Augusta, Georgia

Thermal Ceramics, a worldwide leader in refractory and high-temperature insulation technology, offers solutions for the most demanding thermal management challenges.

Products include:
- Kaocrete® and Kaolite® Castables
- K Insulating Firebrick and Mortars
- Firebrick
- Cerox® Refractory Fired Shapes
- TR-19®/TR-20® Structural Board Insulation
- Kaowool® Blanket/Strip/Bulk Ceramic Fibers
- Kao-Tex® Textiles
- Kaowool® and RPC® Boards and Shapes
- BTU-Block® Microporous Insulation
- Kaowool® Millboard
- Kaowool® Paper and Felts
- Pyro-Bloc® Weld-On and Veneering Modules

At the coming TMS Show in New Orleans, among the products we will highlight are Superwool® 607® and Superwool 607® Max®, new high-temperature non-ceramic fiber insulating materials available in various forms such as bulk, blanket, boards and modules.

Thermal Systems America
#108, 110
www.thermalsystemsamerica.com
Canastota, New York

Thermal Systems America has successfully manufactured drop-in precast refractory liners for aluminium induction melters. One liner, installed into a 10,000 lbs. melter at one location, has melted well over 21 million pounds of aluminum. The liner is fitted with a lifting grab for crane placement inside the furnace. Removal of the Thermal Systems America spent precast refractory liner is also easier and quicker.

Thermcon Ovens B.V.
#235
http://www.thermcon.com
Geldermalsen, The Netherlands

Thermcon Ovens B.V. is a leading specialist in the design and delivery of aluminium casthouse equipment such as charging machines, melting furnaces, holding furnaces, metal filter boxes, d.c. casting machines and homogenizing / cooling facilities. State of the art aluminium scrap recycling facilities capable of handling contaminated aluminium scrap in full compliance with the latest very strict European legislation, are supplied to the recycling industry. These recycling facilities have time after time proven to meet or exceed the most stringent environmental regulations in the world.

Revamping and modernization of existing equipment is also undertaken.

Thermcon also undertakes the design and implementation of computer control systems at machine level, level 2 as well as the connection to plant wide computer networks.

All equipment is custom designed and exactly tailored to the requirements of the customer.
Tyco Flow Control – Terry
#753
http://www.tycoflowcontrol.com.au
Ringwood, Victoria, Australia

Tyco Flow Control Pacific acquired Terry Fluid Controls in 1998. Terry has been a supplier of crustbreaking, feeding cylinders and control cabinets for many years, where its specialised technology and premium quality cylinders are considered industry benchmarks. They have been installed in major smelters in Australia, U.S.A., Middle East and New Zealand. The Terry package includes the patented Terrycom air saving device and stroke signal valve. The Terrycom saves up to 40% of compressed air consumption. The stroke signal valve supplies position sensing for both front and rear, this can help detect non-breakers and stuck picks.

UES Software Inc.
#122
http://www.ues-software.com
Annapolis, Maryland

UES Software Inc is a dynamic leader in providing material process simulation and design software. The software packages being displayed increase productivity, cut costs, improve quality performance, and control environmental hazards. Demonstrations of the powerful thermo-chemical software for predicting phase behavior and properties, kinetic software for solving and modelling chemical reactions, and material specific databases for modeling processes will be available. Also being presented will be ProCAST®, an invaluable tool throughout the world, used to simulate the behavior of industrial casting applications.

UES Dept of Energy/Office of Industrial Technologies
#905
www.oit.doe.gov
Washington, DC

The U.S. Department of Energy’s Office of Industrial Technologies (DOE-OIT) has formed partnerships with the most energy intensive U.S. industries to accelerate the development of energy efficient technologies and processes. The DOE partnership with the Aluminum Industry will be highlighted. The DOE-OIT Aluminum Partnership funds R&D to address the research needs of the Aluminum Industry as identified in the Aluminum Industry Technology Roadmap. The Aluminum Partnership supports and enhances the global competitiveness and ecological sustainability of the U.S. aluminum industry through strategic, leveraged investments in technologies that save energy, improve productivity, and reduce waste.

US Filter
#935
http://www.usfilter.com
1105 N. Point Blvd., Baltimore, MD 21224
410-284-1717 phone
410-285-8264 fax

US Filter provides solutions to water and wastewater problems employing a one-stop-shop approach to total water management. Services range from the supply of unique equipment and technologies to the design and building of turnkey facilities, through acquisition, ownership and operation of water, wastewater or utility facilities. A partial list of equipment and services includes pretreatment, softening, cyanide treatment, thickening, clarification, chemical feed, sludge dewatering, media filtration, oil/water separation or recovery, pH adjustment and liquid/solid separation. US Filter has over 50 years of experience in the design, construction and operation of steel industry wastewater treatment facilities.

VAW Aluminium-Technologie GmbH
#335
http://www.vaw-atg.de
Bonn, Germany

VAW Aluminium-Technologie GmbH (VAW-ATG), a subsidiary of VAW aluminium AG, is specialised in tailor-made modernisation projects for aluminium smelters. The core competencies of VAW-ATG comprise process modeling, process control, aluminium and carbon technology, casthouse technology as well as technical engineering.

The enhanced version of the proprietary VAW process control system ELAS will be presented, together with the “intelligent” crust breaker/feeder development. Significant improvements in the ELAS control algorithm together with the powerful breaker/feeder system are a step forward to a Zero-Anode-Effect operation of reduction cells. The window-oriented graphical user interface of the ELAS pot control system is an outstanding instrument for the retrieval of operational data and in-depth analysis of exception states of reduction cells.

Vesuvius
#801
http://www-vesuvius.com
Welland, Ontario, Canada

Vesuvius, a member of the Ceramics Division of the Cookson Group, has consistently been a world leader in the supply of refractory products and services for the Aluminum industry. The acquisition of Premier Refractories and Chemicals Inc has further strengthened our position in this regard.

We are able to provide products and services for Anode Baking Furnaces, Electrolytic Reduction Cells, Cast House melting and holding furnaces, and Metal Transfer applications through to Hot Mill Finishing requirements.

Vesuvius offers a complete line of dense and insulating firebrick for Anode Baking, as well as fired Carbon cathode and sidewall blocks, nitride and sialon bonded silicon carbide refractories, and Cold Ramming Paste for Reduction Cell needs.

A full range of castables, plastics, mortars and ceramic fibre products designed specifically for aluminum cast house applications are available. The Alugard® product line is a world leader in non-wetting castables, and can be cast, gunned, pumped or supplied as pre-cast shapes.

Products such as Alucel® reticulated ceramic fibers, Zyrock® and Zytoam™ pouring accessories for Casting Tables, as well as silicon carbide Immersion Heater Protection Tubes are available for a variety of Metal Transfer area requirements.
This complete product offering combined with design and engineering services, as well as construction and installation capabilities makes Vesuvius a global leader in supplying the total aluminum industry.

Vulcan Refractories Limited
#117
http://www.vulcan-refractories.co.uk/Cheadle, Staffs United Kingdom

Vulcan Refractories have a long-term commitment to the supply of quality refractories and industrial ceramic materials. The company has over 30 years experience in the manufacture of high duty refractory materials for use in high temperature or aggressive atmosphere applications. The product range is based around 3 main material groups:
- Silicon Carbide
- Alumina and Mullite
- Zirconia

Major applications are:
- Primary aluminum—Silicon nitride bonded silicon carbide blocks for lining primary reduction cells
- Secondary aluminum—Silicon carbide, alumina and aluminum titanate shapes for flow control, launder and furnace tapping areas
- Copper—Silicon carbide linings for melting and holding furnaces
- Powder metallurgy—Zirconia, alumina and aluminum titanate flow control nozzles

Wagstaff Inc
#501
http://www.wagstaff.com
Spokane, Washington

Wagstaff, Incorporated, Spokane, WA USA is a 54 year old company known worldwide for manufacturing customized equipment for Direct Chill aluminum casting of semi-fabricated rolling ingot and extrusion billet. Wagstaff customers, located in over 45 countries around the world, have long known the benefits of high quality Wagstaff MaxiCast Hot Top Billet Casting Tables equipped with the Wagstaff AirSlip Air Casting Process. Also known for it’s leading technology in Wagstaff ShurCast Casting Machines, Wagstaff AutoCast Automated Casting Control System, and Wagstaff LHC Low Head Composite Casting System. Wagstaff innovations are invented, first built and tested in it’s expansive, triple casting pit, Research and Development facility.

Wienalco
#327
http://www.wienalco.com
Velsen-Noord, The Netherlands

WIENALCO is formed around a group of experts with decades of experience in the aluminium smelter industry. WIENALCO serves the industry with a wide range of aluminium smelter, carbon baking and graphitizing industry dedicated machines.

Modernisation in existing smelters and baking furnaces is our special expertise. Improvement of labour working conditions, improvements on machine efficiencies including adding new operation tools are recognised to be most valuable.

The scope of supply comprises:
- Pot Tending Machines (prebake, soderberg, radio and cab control)
- Anode Baking Furnace Tending Machines (as well as stationary vacuum installations)
- Crane Transfer Systems (gantry, lifting beams, retractable buffers)
- Cathode Removal Cranes
- Anode Jacking Frames (automatic, cold and hot frames)
- Anode Rod Clamps
- Crucible Cleaning Machines (including pre-heaters, dedusting)
- Tube Cleaning Machines
- Alumina Unloading Machines (including dust free conveying and storage systems)
- Machine power supplies
- Rails, clips, underlayment
- Storage silos.

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Z

Zircar Ceramics Inc.
#211
http://www.zircarceramics.com
Florida, New York
Tel: 845 651 6600
Fax: 845 651 0441
e-mail sales@zircarceramics.com
website: www.castertips.com

For more than a dozen years, ZIRCAR has been synonymous with high quality, soft castertips for use in the continuous casting of thin aluminum strip. We are now introducing several new high quality castertip products for use on just about every type of twin roll thin strip caster being used today. ZIRCAR Castertips are combinations of shot free fiber and inorganic binders and are used in the production of pin hole free foil. Castertip Type ASQ is our soft tip. Type Z-290 is a medium density tip. Z-450 is a high density, hard tip. All of these tip products are also produced in NON RCF compositions as well. Many other ZIRCAR Casthouse products are also available.

Zircar Refractory Composites
#242
www.zcri.com
Florida, New York

ZYP Coatings Inc
#942
http://www.zypcoatings.com
Oak Ridge, Tennessee

ZYP® Coatings, Inc. is the premier manufacturer of paintable boron nitride coatings. For aluminum billet producers (Wagstaff casters), three boron nitride paints are presented
- BLUE-COLORED Tableguard
- Transition Plate Coating (TPC)
- Ring-Seal.

Tableguard greatly extends casting-table refractory life, while giving inclusion-free pours, stopping dross buildup, and allowing easy removal of any mispours. Both water-based and solvent-based Transition Plate Coating (TPC) products are available for this application. Ring-Seal is a totally nonwetting seal for transition-plate graphitelite-ring joints.

ZYP Coatings provides true, total nonwetting boron nitride paints for all areas of processing molten nonferrous metals. Boron Nitride Lubricant (WHITE or BLUE-COLORED) is ideal for extending the life of refractory troughs, launders, runners — while providing smooth flowing action. Boron Nitride Releasecoat (WHITE or BLUE-COLORED) gives Teflon®-like mold release and mirror-like (cosmetic) surface finishes for low-draft, high-drag areas in permanent molds. Boron Nitride Hardcoat is ideal for ladies, skimmers, and areas needing some abrasion-resistance.