

THE WORLD COMES HERE

TMS 2020

149th Annual Meeting & Exhibition

34TH EXHIBITION

Located in the Sails Pavilion of the San Diego Convention Center

EXHIBIT HOURS AND EVENTS

MONDAY, FEBRUARY 24

Exhibit Hours: 11:00 a.m. to 7:00 p.m.

Lunch in the Exhibit Hall: 1:00 p.m. to 2:30 p.m.

Exhibit Opening Reception & Poster Session I: 5:30 p.m. to 7:00 p.m.

TUESDAY, FEBRUARY 25

Exhibit Hours: 11:00 a.m. to 7:00 p.m.

Lunch in the Exhibit Hall: 11:30 a.m. to 1:30 p.m.

Exhibit Hall Happy Hour & Poster Session II: 5:30 p.m. to 7:00 p.m.

WEDNESDAY, FEBRUARY 26

Exhibit Hours: 10:00 a.m. to 2:00 p.m.

Lunch in the Exhibit Hall: 11:30 a.m. to 1:30 p.m.



ABB, Inc.	Booth # 519	Limpact International Limited	Booth # 725
AdValue Technology, LLC	Booth # 621	Materials Square, Inc.	Booth # 705
Advanced Carbon Products, LLC	Booth # 400	MDPI AG	Booth # 726
Advanced Optical Technologies	Booth # 728	Mechatherm International Ltd	Booth # 529
AIME	Booth # 420	Microtrac	Booth # 625
Alemnis AG	Booth # 307	MITSUI MINING & SMELTING CO., LTD.	Booth # 719
Allied High Tech Products	Booth # 507	MSE Supplies LLC	Booth # 704
ALMEX USA, Inc.	Booth # 601	MTI Corporation	Booth # 700
ALS	Booth # 715	Nanovea	Booth # 600
ALTEK, LLC	Booth # 419	National Energy Technology Laboratory	Booth # 429
Ampere Scientific	Booth # 627	Netzsch Instruments NA LLC	Booth # 615
ANSYS Inc.	Booth # 415	Nuclear Science User Facilities	Booth # 306
Anton Paar USA	Booth # 620	Outotec	Booth # 606
Asia Pacific Electrode Technology Inc.	Booth # 626	Pace Technologies	Booth # 526
Bruker	Booth # 506	PolarOnyx, Inc.	Booth # 617
Buehler	Booth # 428	Precimeter Inc.	Booth # 424
California Nanotechnologies	Booth # 701	PROTO	Booth # 628
Carl Zeiss Microscopy, LLC	Booth # 515	Pyrotek Inc.	Booth # 521
Chongqing University (Journal of Magnesium and Alloys)	Booth # 418	RHI Magnesita GmbH	Booth # 714
CIMM Group Co., Ltd.	Booth # 614	Rtec-Instruments, Inc.	Booth # 401
Claudius Peters Projects GmbH	Booth # 406	Sente Software Ltd.	Booth # 709
CompuTherm, LLC	Booth # 518	Shandong Hwapeng Precision Machinery Co., Ltd.	Booth # 408
EAG Laboratories	Booth # 710	Sistem Teknik Industrial Furnaces Ltd.	Booth # 711
EBSD Analytical	Booth # 516	Solar Turbines Inc	Booth # 608
EDAX	Booth # 520	STAS-SERMAS	Booth # 511
Elsevier	Booth # 301	Synton Mdp AG	Booth # 707
FemtoTools AG	Booth # 607	TA Instruments	Booth # 724
FormAlloy	Booth # 718	Taylor Francis Group	Booth # 717
Fritsch Milling & Sizing, Inc.	Booth # 702	Tekna Plasma Systems	Booth # 706
GLAMA	Booth # 407	Tenova Inc.	Booth # 716
Goodfellow Corp	Booth # 421	Tethon 3D	Booth # 300
Haarslev Industries Press Technology GmbH + Co.Kg	Booth # 411	The Metallurgy and Materials Society of CIM	Booth # 524
Hitachi High Technologies America, Inc.	Booth # 514	Thermo-Calc Software Inc.	Booth # 414
HORIBA Scientific	Booth # 528	Thermo Fisher Scientific	Booth # 618
Hycast AS	Booth # 619	TSI Incorporated	Booth # 629
International Aluminium Journal	Booth # 416	UES, Inc.	Booth # 425
IPS Ceramics USA	Booth # 402	Wagstaff, Inc.	Booth # 501
KLA Corporation	Booth # 525	Zhengzhou Jingwei Technology Industry Co.,Ltd	Booth # 624
Leica Microsystems	Booth # 720	Zircar Ceramics	Booth # 427
Light Metal Age	Booth # 605		

POSTER SESSIONS

FOOD & BEVERAGE

ENTRANCE

729	727	725	721	719	717	715	711	709	707	705	703	701		
728	726	724	720	718	716	714	710	20'		704	702	700		
629	627	625	621	619	617	615	30'			607	20'		605	601
628	626	624	620	618	614	20'	20'		608	606	20'		600	
529	20'		521	519	515	511	20'		507	20'		501		
528	526	524	520	518	516	514	30'			506	20'		401	20'
429	427	425	421	419	20'		415	411	20'		407	20'		401
428	426	424	420	418	416	414	20'		408	406	402	400		
329	327	325	321	319	315	317	311	309	307	303	301			
328	326	324	320	318	314	312	310	308	306	302	300			

SAILS PAVILION

Additive Technologies

ANSYS Inc.	Booth # 415
Carl Zeiss Microscopy, LLC	Booth # 515
FormAlloy	Booth # 718
HORIBA Scientific	Booth # 528
PolarOnyx, Inc.	Booth # 617
UES, Inc.	Booth # 425
Zircar Ceramics	Booth # 427

Advanced Materials

AdValue Technology, LLC	Booth # 621
ANSYS Inc.	Booth # 415
Buehler	Booth # 428
California Nanotechnologies	Booth # 701
Carl Zeiss Microscopy, LLC	Booth # 515
CompuTherm, LLC	Booth # 518
EAG Laboratories	Booth # 710
EBSD Analytical	Booth # 516
Fritsch Milling & Sizing, Inc.	Booth # 702
GLAMA	Booth # 407
Goodfellow Corp	Booth # 421
IPS Ceramics USA	Booth # 402
KLA Corporation	Booth # 525
Materials Square, Inc.	Booth # 705
Nanovea	Booth # 600
Nuclear Science User Facilities	Booth # 306
TA Instruments	Booth # 724
Thermo Fisher Scientific	Booth # 618
Zircar Ceramics	Booth # 427

Biomaterials

ANSYS Inc.	Booth # 415
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Characterization

ABB, Inc.	Booth # 519
Alemnis AG	Booth # 307
Anton Paar USA	Booth # 620
Bruker	Booth # 506
Buehler	Booth # 428
Carl Zeiss Microscopy, LLC	Booth # 515

EAG Laboratories	Booth # 710
EBSD Analytical	Booth # 516
EDAX	Booth # 520
FemtoTools AG	Booth # 607
Hitachi High Technologies America, Inc.	Booth # 514
HORIBA Scientific	Booth # 528
KLA Corporation	Booth # 525
Microtrac	Booth # 625
Netzsch Instruments NA LLC	Booth # 615
Nuclear Science User Facilities	Booth # 306
Pace Technologies	Booth # 526
Synton Mdp AG	Booth # 707
TA Instruments	Booth # 724
Thermo Fisher Scientific	Booth # 618
TSI Incorporated	Booth # 629
UES, Inc.	Booth # 425

Corrosion

Asia Pacific Electrode Technology Inc.	Booth # 626
Bruker	Booth # 506
HORIBA Scientific	Booth # 528
Nanovea	Booth # 600
Taylor Francis Group	Booth # 717

Electronic Materials

Materials Square, Inc.	Booth # 705
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Energy & Environment

Fritsch Milling & Sizing, Inc.	Booth # 702
IPS Ceramics USA	Booth # 402
MTI Corporation	Booth # 700
Solar Turbines Inc	Booth # 608

Light Metals

ALMEX USA, Inc.	Booth # 601
ALTEK, LLC	Booth # 419
Goodfellow Corp	Booth # 421
Hycast AS	Booth # 619
Light Metal Age	Booth # 605
MTI Corporation	Booth # 700
Outotec	Booth # 606

Shandong Hwapeng Precision Machinery Co., Ltd.	Booth # 408
STAS-SERMAS	Booth # 511
TSI Incorporated	Booth # 629
Zhengzhou Jingwei Technology Industry Co.,Ltd	Booth # 624
Zircar Ceramics	Booth # 427

Materials Design

ALMEX USA, Inc.	Booth # 601
CompuTherm, LLC	Booth # 518
EBSD Analytical	Booth # 516
FormAlloy	Booth # 718
GLAMA	Booth # 407
Haarslev Industries Press Technology GmbH + Co.Kg	Booth # 411
Mechatherm International Ltd	Booth # 529
Nanovea	Booth # 600
Sente Software Ltd.	Booth # 709
Solar Turbines Inc	Booth # 608
TA Instruments	Booth # 724
Thermo-Calc Software Inc.	Booth # 414
Thermo Fisher Scientific	Booth # 618

Materials Processing

ABB, Inc.	Booth # 519
Allied High Tech Products	Booth # 507
ALMEX USA, Inc.	Booth # 601
Asia Pacific Electrode Technology Inc.	Booth # 626
California Nanotechnologies	Booth # 701
Claudius Peters Projects GmbH	Booth # 406
EAG Laboratories	Booth # 710
EDAX	Booth # 520
FormAlloy	Booth # 718
Fritsch Milling & Sizing, Inc.	Booth # 702
GLAMA	Booth # 407
Haarslev Industries Press Technology GmbH + Co.Kg	Booth # 411
IPS Ceramics USA	Booth # 402
KLA Corporation	Booth # 525

Mechatherm International Ltd	Booth # 529
Netzsch Instruments NA LLC	Booth # 615
Outotec	Booth # 606
Pace Technologies	Booth # 526
PolarOnyx, Inc.	Booth # 617
Precimeter Inc.	Booth # 424
PROTO	Booth # 628
Sente Software Ltd.	Booth # 709
Taylor Francis Group	Booth # 717
Thermo-Calc Software Inc.	Booth # 414
TSI Incorporated	Booth # 629

Mechanics & Structural Reliability

Allied High Tech Products	Booth # 507
Anton Paar USA	Booth # 620
FemtoTools AG	Booth # 607
Hitachi High Technologies America, Inc.	Booth # 514
Mechatherm International Ltd	Booth # 529
Sente Software Ltd.	Booth # 709

Nanostructured and Heterostructured Materials

EDAX	Booth # 520
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Nuclear Materials

FemtoTools AG	Booth # 607
Nuclear Science User Facilities	Booth # 306

Physical Metallurgy

ABB, Inc.	Booth # 519
Allied High Tech Products	Booth # 507
Buehler	Booth # 428
California Nanotechnologies	Booth # 701
Hitachi High Technologies America, Inc.	Booth # 514
MTI Corporation	Booth # 700
Outotec	Booth # 606
Taylor Francis Group	Booth # 717
Thermo-Calc Software Inc.	Booth # 414
UES, Inc.	Booth # 425
Zhengzhou Jingwei Technology Industry Co.,Ltd	Booth # 624

2020 EXHIBITING COMPANY DESCRIPTIONS

ABB, Inc. Booth# 519

ABB offers a complete range of analytical solutions to the aluminum industry: ALSCAN™ hydrogen analyzer, LiMCA inclusion analyzer, Prefil®-Footprinter melt cleanliness analyzer, PoDFA inclusion identification and quantification analysis as well as electromagnetic stirring solutions.

AdValue Technology, LLC Booth# 621

AdValue Technology specializes in areas of Alumina, Fused Quartz, Sapphire and Zirconia. Products vary from Crucibles, Tubes & Rods, Plates & Discs, DTA&DSC Sample Pans, Ceramic Membranes to custom components. Laser machining and metallization are available. We also sell high purity powders including Alumina Powders, Quartz Sands, TeO₂ Powders & CeO₂ Polishing Powders.

Advanced Carbon Products, LLC Booth# 400

Advanced Optical Technologies Booth# 728

AIME Booth# 420

The American Institute of Mining, Metallurgical, and Petroleum Engineers (AIME), founded in 1871, supports its member societies (including TMS) by distributing funds, facilitating interaction with the relevant scientific and engineering community, and honoring the legacy and traditions of AIME. AIME supports a number of initiatives within TMS to recognize prominent members and to advance students and early career professionals. The Institute's booth will highlight oral histories of esteemed TMS and other AIME members to date, promote upcoming releases and captures, and explain how to access full versions online.

Alemnis AG Booth# 307

Alemnis develops and manufactures state-of-the-art instruments for in-situ and ex-situ testing of materials mechanical properties at small scales, e.g., nanoindentation, micropillar compression, cantilever bending, tensile testing, ultra high strain rate, high and low temperature, fatigue, fracture, impact, etc.

Allied High Tech Products Booth# 507

For over 36 years, Allied High Tech Products has provided quality products for metallographic sample preparation and analysis. Allied manufactures state-of-the-art equipment including sectioning machines, mounting systems, grinders/polishers and a precision tabletop milling machine at its California headquarters.

ALMEX USA, Inc. Booth# 601

Almex USA is the leading supplier of aerospace & commercial aluminum billet & slab casting technology & eqpt. The company specializes in complete turnkey "Furnace to Finish™" aluminum casthouse solutions. The well-rounded product line includes melting furnaces, degassing systems, DC casting machines, billet/slab casting systems, automation & homogenization systems.

ALS Booth# 715

ALTEK, LLC Booth# 419

ALTEK is a technology-based company, specializing in the design, manufacture and installation of a range of equipment for aluminum casthouses. Our engineers have over 200 years of combined international experience, developing and refining solutions for aluminum processing, dross, and scrap recycling. Our unique skill sets are an invaluable resource for customers worldwide.

Ampere Scientific Booth# 627

ANSYS Inc. Booth# 415

ANSYS is the global leader in engineering simulation. We bring clarity and insight to our customer's most complex design challenges through the broadest portfolio of fast, accurate and reliable simulation tools. Our technology enables organizations in all industries to imagine and deliver high-quality, innovative products faster to the market.

Anton Paar USA Booth# 620

Anton Paar offers a wide range of instruments and testing services for surface mechanical properties characterization, including: Hardness Testers, Scratch Testers & Tribometers. 3D-imaging options are available with the ConScan or AFM objective. CSM manufactures standalone instruments and testing modules that can be combined together on an automated platform.

Asia Pacific Electrode Technology Inc. Booth# 626

Being a professional supplier of anodes and cathodes for non-ferrous refineries, we understand that in a globally competitive market, the cost of our products will significantly impact our customers' costs. Therefore, APETECK supplied complete lead alloy anodes and cathodes, as well as MMO anode, at competitive price with quality recognized by our clients for many years.

Bruker Booth# 506

Bruker's industry-leading technologies include Micro-XRF, UMT mechanical testers and Hysitron nanomechanical test instruments. From investigating friction and wear to nanoscale materials characterization and elemental analysis, Bruker offers advanced solutions to help you appreciate and develop innovative materials at the macro- and nano-scale.

Buehler Booth# 428

Buehler, a division of ITW, markets metallography solutions for materials preparation, testing & analysis. Buehler manufactures intuitive equipment & consumables for sectioning, grinding-polishing, mounting, hardness testing & analysis. For more info, visit www.buehler.com or email marketing@buehler.com.

California Nanotechnologies Booth# 701

California Nanotechnologies offers an array of facilities including advanced consolidation techniques (Spark Plasma Sintering), cryogenic milling, and machining tools. R&D and pilot-scale production services are performed by Cal Nano for both in-house programs and customer-funded projects. Programs range from Space, Aerospace, Nuclear, and Sports & Recreation industries.

Carl Zeiss Microscopy, LLC Booth# 515

ZEISS microscopy is the world's only manufacturer of light, electron, ion, and X-ray microscope systems to address challenges in materials characterization and inspection. From 2D to 3D and even 4D (through time) analysis, ZEISS microscopes offer the modalities and dimensions needed to fully investigate your material microstructures.

CIMM Group Co., Ltd. Booth# 614

Claudius Peters Projects GmbH Booth# 406

Claudius Peters Projects GmbH is headquartered in Buxtehude, Hamburg with regional offices in the Americas, Europe, China and the Far East. Claudius Peters stockyards, pneumatic conveyors, silos, clinker coolers, grinding mills, and packing systems can be found in Cement, Coal, Alumina, and Gypsum plants across the globe.

CompuTherm, LLC Booth# 518

CompuTherm is a leading developer of CALPHAD-based simulation tools. In addition to thermodynamics & phase equilibrium, Pandat software can be used to simulate materials processing from solidification to homogenization and heat treatment. Thermodynamic, mobility, molar volume and other property databases are available. We also aid customers to develop specialized tools.

EAG Laboratories Booth# 710

EAG Laboratories, now part of Eurofins global network, is the global leader in materials characterization. We specialize in the determination of material identity, composition, purity, contaminant levels and crystal structure using advanced analytical techniques. We can manage highly complex analytical projects and help you meet your goals quickly and confidently.

EBSD Analytical Booth# 516

EBSD Analytical provides microstructural analysis services through EBSD and EDS coupled with the SEM. The owner, Ron Witt, has been involved with EBSD since 1996, having worked for both TSL and EDAX/Ametek before founding EBSD Analytical in 2003. With over 23 years experience, let us show you how materials characterization with EBSD can help improve your processes.

EDAX Booth# 520

EDAX is the global leader in Energy Dispersive Spectroscopy (EDS), Electron Backscatter Diffraction (EBSD), Wavelength Dispersive Spectrometry (WDS) and X-ray Fluorescence (XRF) systems. EDAX manufactures, markets, and services high-quality products and systems for leading companies in semiconductors, metals, and geological, biological, material and ceramics markets.

Elsevier Booth# 301

FemtoTools AG Booth# 607

FemtoTools is a manufacturer of high-resolution nanoindenters for applications in metallurgy and thin films

FormAlloy Booth# 718

Headquartered in San Diego, CA, FormAlloy is an additive manufacturing technology company that is principally engaged in the design, R&D, manufacture and integration of metal deposition systems. FormAlloy's award-winning metal AM technology provides an innovative, cost-effective solution to form, enhance, and repair 3D metal parts in a diverse set of industries.

2020 EXHIBITING COMPANY DESCRIPTIONS

Fritsch Milling & Sizing, Inc.

Booth# 702

FRITSCH is an internationally respected German manufacturer of commercial quality, professional application-oriented laboratory instruments & production equipment Serving a range of industries – from agriculture to pharma to nano-technology.

GLAMA

Booth# 407

GLAMA founded in 1961 is mainly building heavy-duty Equipment for Aluminium pot rooms, cast houses and anode rodding shops throughout the world. Extract of our range of products: - Anode Changing Vehicles - Anode Pallet Transporters - Butt Cleaning Manipulators - Furnace Charging Machines - Furnace Tending Machines - Ladle Charging Trucks - Molten Metal Carriers - Tapping Trucks

Goodfellow Corp

Booth# 421

Goodfellow is a leading global supplier of metals, alloys, ceramics, glasses, polymers, compounds, composites and other materials to meet the requirements of science and industry. The company has an extensive range of 70,000 catalog products in multiple forms available off the shelf.

Haarslev Industries Press Technology GmbH + Co.Kg

Booth# 411

The world leader for most efficient wear protection materials. We supply optimized wear and spare parts for Anode Paste mixers at economical prices with longer life times than any other supplier to this industry. Furthermore we provide services and process support for anode paste preparation. All of our parts for the Aluminium Industry are manufactured in Germany.

Hitachi High Technologies America, Inc.

Booth# 514

Hitachi High Technologies provides technologically advanced imaging solutions to the materials science, academic, geological, and mining research sectors. Our innovative and reliability-proven instrumentation includes SEM, TEM, dedicated STEM, FIB, Ion Milling instrumentation, Atomic Force microscopes, tabletop microscopes, and microanalysis sample prep systems.

HORIBA Scientific

Booth# 528

HORIBA Scientific, world leader in spectroscopic instrumentation, offers products for solids samples analysis from C/S/O/N and H elemental analyzers with EMIA and EMGASeries to GD-OES spectrometers for depth profiling studies. Applications include: Additive manufacturing, Aluminum, glass, ceramics, coatings characterization and corrosion studies.

Hycast AS

Booth# 619

Hycast AS has expertise within aluminium casthouse technology and core competencies within project management, engineering and process know-how. Hycast AS has extensive experience and know-how gained from numerous projects world-wide. The main products are Billet and Slab Casting technology, Melt refining, Rod Feeders and Launderers integrated into a fully automated process.

International Aluminium Journal

Booth# 416

International ALUMINIUM Journal deals with all facets of aluminium's value chain from the production of the metal via its processing through to recycling. The publication is thus of particular interest to smelters and remelters, semis producers, foundries, fabricators and converters, metal traders, semis stockholders and research facilities and it is distributed worldwide.

IPS Ceramics USA

Booth# 402

IPS Ceramics USA is a world-renowned supplier of Kiln Furniture, Technical Ceramics and bespoke ceramic solutions. Using our collective 250 + years of experience, we offer Cordierite, Alumina, Silicon Carbide and more. Our components are used in many manufacturing industries (from tableware to aerospace and batteries) and can be custom engineered and produced.

KLA Corporation

Booth# 525

We provide advanced process control solutions for manufacturing wafers and reticles, integrated circuits and packaging. In close collaboration with leading customers across the globe, our expert teams of physicists, engineers, data scientists and problem-solvers design solutions that move the world forward.

Leica Microsystems

Booth# 720

Light Metal Age

Booth# 605

Light Metal Age magazine has a long legacy in the aluminum industry with 75 years of experience covering primary and secondary production, extrusion, and rolling. We provide vital technical, industrial, and market information to aluminum producers and processors around the world. Aluminum in automotive, aerospace, and building and construction, are also major topics.

Limpact International Limited

Booth# 725

Materials Square, Inc.

Booth# 705

Materials Square is a material simulation web platform. Through the material simulation R & D environment provided as SaaS, you can perform the whole process of simulation from material modeling to result analysis on the web without additional server construction, maintenance and software installation. Also, you get the fastest simulation data with cloud servers.

MDPI AG

Booth# 726

Mechatherm International Ltd

Booth# 529

Mechatherm International Ltd is a world leading company of industrial engineering experts specialising in the design, supply and commissioning of furnaces and casthouse equipment for the global aluminium industry.

Microtrac

Booth# 625

Microtrac strives to provide the materials characterization world with innovative, reliable & repeatable particle analysis instrumentation. Our product portfolio contains instruments that provide particle size and shape, zeta potential, 3D Image Analysis and dust characterization. Our instruments are used in virtually every industry, from pharmaceutical to food processing.

MITSUI MINING & SMELTING CO., LTD.

Booth# 719

MSE Supplies LLC

Booth# 704

MTI Corporation

Booth# 700

MTI provides laboratory R&D equipment including alloy melting, casting, annealing, sectioning, polishing, mixing machines, high temperature muffle and tube furnaces, pressing machines, film coaters, high vacuum systems, high pressure furnaces, RTP furnaces, hydrogen furnaces, as well as compact XRD/XRF for Metallographic analysis and equipment for High Throughput.

Nanovea

Booth# 600

Nanovea aims to simplify advanced measurement technologies to stimulate material engineering. Ease of use, advanced automation and the dedication to superior accuracy are the driving forces behind its full range of precision instruments. Thousands of clients rely on our accurate & honest solutions, superior instruments and experienced laboratory and consulting services.

National Energy Technology Laboratory

Booth# 429

Netzsch Instruments NA LLC

Booth# 615

NETZSCH Instruments offers highly sensitive, versatile, and reliable thermal analysis instrumentation for R&D, quality control, process safety, and failure analysis. Our instruments and methods allow for material characterization and the study of properties including Cp, enthalpy, weight change, Young's modulus, conductivity, diffusivity, and evolved gas analysis.

Nuclear Science User Facilities

Booth# 306

The Nuclear Science User Facilities (NSUF) offers unparalleled research opportunities for nuclear energy researchers via 21 partner institutions. Users are granted access via a competitive peer-reviewed process to world-class nuclear research facilities, technical expertise, and assistance with experiment design, assembly, safety analysis and examination.

Outotec

Booth# 606

Outotec develops leading technologies and services for the sustainable use of Earth's natural resources. Our role is to build, maintain and even run entire operations from the ground up. We help our customers create the smartest value from natural resources and work with them to find the most sustainable solutions for handling the full value chain from ore to metals.

Pace Technologies

Booth# 526

Pace Technologies offers a full line of economically priced metallographic equipment.. everything from abrasive saws to grinder and polishers we try to simplify your sample preparation experience while keeping costs to a minimum. In addition to our line of equipment, Pace Technologies prides itself on it's excellent quality consumable supplies. Please come by our booth.

PolarOnyx, Inc.

Booth# 617

Award winning Pulsed laser 3D manufacturing system supplier. Both industrial and research grade additive manufacturing system and subtractive manufacturing are available. PolarOnyx also service customers on process development for a variety of metals and ceramics. Pulsed laser covers from femtosecond to nanosecond. www.polaronyx.com

Precimeter Inc.

Booth# 424

Molten Metal level control.

2020 EXHIBITING COMPANY DESCRIPTIONS

PROTO

Booth# 628

Proto produces off-the-shelf x-ray diffractometers including powder, residual stress, and Laue single-crystal orientation systems. However, our expert team can work with you to develop custom solutions for complex projects. We can offer modular platforms for high-end experimental x-ray techniques such as CT, phase contrast imaging, and high-energy diffraction microscopy.

Pyrotek Inc.

Booth# 521

RHI Magnesita GmbH

Booth# 714

Rtec-Instruments, Inc.

Booth# 401

Rtec Instruments develops advanced mechanical, surface testing, measurement solutions for research and industrial applications. Our testers including hot hardness tester, tribometer, profilometer, scratch tester, corrosion testers provide the most robust platform for testing friction, wear, adhesion, hardness, roughness, film thickness from nano-scale to macro-scale.

Sente Software Ltd.

Booth# 709

Developers of JMatPro®, a powerful simulation software package for calculating a wide range of materials properties and behavior for multi-component alloys used in industrial practice. Data exports are available to casting, forming, forging and heat treatment packages. Sente Software has a proven track record for innovation and excellence with customers worldwide.

Shandong Hwapeng Precision Machinery Co., Ltd.

Booth# 408

Established in 1994,HWAPENG is a Professional manufacturer of Carbon Paste Preparing & Forming Machines. Holding 17 national Patents, 2 China's national industry Standards of kneader& cooler, 90%Market Sharein China,We also provide Anode Vibrocompactor & Graphite Electrode Extruder& other equipment in Carbon Plants& EPC.

Sistem Teknik Industrial Furnaces Ltd.

Booth# 711

Solar Turbines Inc

Booth# 608

Solar Turbines is one of the world's leading manufacturers of industrial gas turbines and compressors, with more than 15,000 units sold and more than 2.8 billion operating hours in more than 100 countries. Solar Turbines manufactures an extensive line of gas turbine-powered compressor sets, mechanical drive packages and generator sets.

STAS-SERMAS

Booth# 511

STAS is a world leader in the supply of various equipment and solutions to improve the productivity and quality of aluminium. We specialized in the development, fabrication and commercialisation of process equipment since 1989. 160 employees and a dozen strategic partners and agents located in key markets. We provide innovative, robust machines globally.

Synton Mdp AG

Booth# 707

Synton-MDP is a manufacturer of diamond stylus for microtechnical instruments. Most of the tips are used in metrological equipment (surface finish, profile, form, nano-indentation, hardness, scratch and other characteristics). We specialise in small spherical tips, with a high level of dimensional accuracy in ultra-compact configurations, and points with razor sharp edges.

TA Instruments

Booth# 724

Visit TA Instruments for premier technology in thermal analysis and thermophysical testing. Innovative instrumentation for materials characterization of polymers, metals, ceramics, and more. Unmatched performance from our Discovery Series DSC, TGA, and SDT and industry leading instruments for Thermal Conductivity, Dilatometry, and Thermal Diffusivity by Flash up to 2800°C.

Taylor Francis Group

Booth# 717

Take your research skills to the next level with Taylor & Francis, leading publisher of quality peer-reviewed journals in Materials Science. Visit our booth for top performing journals in Physical Metallurgy, Composites, Ceramics, Biomaterials, Electronic Materials and Nanomaterials. Talk to us about being a Taylor & Francis author, and come pick up gratis journal copies.

Tenova Inc. Booth# 716

Tenova Inc., is a worldwide leader in the design and supply of loose carbonaceous material calciners based on rotary hearth technology. These furnaces are used for the processing of petroleum coke, coal, formed coke briquettes and various other carbon based products. We also provide aluminum processing furnaces for a variety of applications as well as technical services.

Tethon 3D Booth# 300

The Metallurgy and Materials Society of CIM Booth# 524

MetSoc is a world-class Canadian organization that attends to the needs of professionals in the global metallurgy and materials community. Our mission is to serve those involved in the research, development and application of the science and technologies for the environmentally responsible extraction, fabrication, utilization and recycling of metals and materials.

Thermo-Calc Software Inc. Booth# 414

Leading developer of software for computational thermodynamics and diffusion controlled simulations. Thermo-Calc: thermodynamic and phase equilibria calculations for multicomponent systems. DICTRA: predicting diffusion in multicomponent alloys. TC-PRISMA: simulations of precipitation kinetics. Databases for steels, Ti, Al-, Mg-, HEAs, Ni-superalloys and other materials.

Thermo Fisher Scientific Booth# 618

Innovative materials hold the key to improving safety, fuel efficiency, and productivity. Thermo Fisher Scientific supplies innovative solutions for materials science research, combining SEMs, TEMs, DualBeam™ FIB-SEMs and micro CT with advanced software suites to take customers from data to understanding.

TSI Incorporated Booth# 629

TSI Chemlogix offers laser metal analysis and sorting tools for PMI and sorting of scrap metal. The handheld Chemlite will analyze your Aluminum on the spot in 1 second with no XRF regulation issues. Sort your scrap Aluminum automatically using the Chemline with capacity up to 5 TPH. Sort 5,xxx from 6,xxx series alloys or cast from wrought Al automatically.

UES, Inc. Booth# 425

Robo-Met.3D is a fully automated serial sectioning system for three-dimensional microstructural investigations. The system enables metallographic etching and imaging of the microstructure of materials. Post-processing reassembles these 2D images, gathered over an optical scale, into 3D models.

Wagstaff, Inc. Booth# 501

Custom Aluminum DC Casting Systems from Wagstaff. Wagstaff, Inc. is a 73-year-old industrial manufacturing and engineering company that provides customized, advanced aluminum direct-chill (DC) solidification technology to rolling ingot and extrusion billet producers worldwide. Wagstaff's headquarters are located in Spokane, Washington, USA.

Zhengzhou Jingwei Technology Industry Co.,Ltd Booth# 624

We are dedicated to the R&d and service of technology innovation and equipment in nonferrous metallurgical industry. Our core business covers four parts,including aluminum electrolysis,alumina,carbon ,and magnesium. JingWei has gradually grown into an innovative technology partner in nonferrous metallurgical industry.

Zircar Ceramics Booth# 427

ZIRCAR Ceramics, Inc. manufactures ceramic fiber based high temperature thermal and electrical insulation products for use at temperatures to 1825C. Offering boards, cylinders, blankets, papers, textiles, coatings and adhesives and consumables for aluminum sheet casting. Furnace Insulation Assemblies, Resistance Heated Modules and custom precision CNC machined components.

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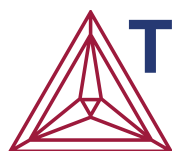
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