CONFERENCE & EXHIBIT BROCHURE

Technical Meeting and Exhibition

MS&T25

MATERIALS SCIENCE & TECHNOLOGY

THE Advanced Materials SHOW | USA

September 28 - October 1, 2025
Greater Columbus Convention Center (GCCC)
& Hyatt Regency Columbus
Columbus, OH

WHERE MATERIALS INNOVATION HAPPENS

FEATURING:

TMS FALL MEETING @ MATERIALS SCIENCE & TECHNOLOGY

AIST ASSOCIATION FOR IRON & STEEL TECHNOLOGY | STEEL PROPERTIES & APPLICATIONS

The American Ceramic Society ceramics.org Annual Meeting

EP EVENT PARTNERS

Get the most out of the event—download the event app today! *See page 8.*

matscitech.org/MST25

Technical Meeting and Exhibition

MS&T25

MATERIALS SCIENCE & TECHNOLOGY

The American Ceramic Society Annual Meeting | AIST Steel Properties & Applications | TMS Fall Meeting | Event Partners

2025 Chair and ACerS Representative

Roger Narayan, North Carolina State University

2025 AIST Representative

Yash Injeti, Big River Steel

2025 TMS Representatives

John Carpenter, Los Alamos National Laboratory
Eric Lass, University of Tennessee, Knoxville

UPCOMING MS&T SCHEDULE

Pittsburgh, Pennsylvania, USA
October 4 – 7, 2026

Pittsburgh, Pennsylvania, USA
October 24 – 27, 2027

Pittsburgh, Pennsylvania, USA
October 22 – 25, 2028

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LEARN MORE AT

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PLENARY SESSIONS

DENGQI BAI

Principle Research Engineer,
SSAB Americas

AIST Adolf Materns Memorial Steel Lecture

Microstructure Engineering for Advanced High-Strength Line Pipe Steels

Monday, September 29
8 – 9 a.m.
GCCC, Short North Ballroom B

Line pipe steels are mostly used for oil and natural gas transmission pipelines. Due to high pressure and remote operating conditions, the requirements for mechanical properties of these steels are stringent. High operating pressure is necessary for high transmission efficiency. This calls for steel with high strength. Meanwhile, high toughness is also required for high-performance line pipe steels. Over the last 25 years, advanced high-strength line pipe steels with strength level as high as 120 ksi (827 MPa) have been developed to meet the demand. Similar to any other steel, microstructure is the key to producing the required mechanical properties. For different strength levels, microstructural constituents could be different. However, a fine grain structure is always desirable because grain refinement is the only microstructural parameter that contributes positively to both strength and toughness. Achieving a fine grain structure and appropriate microstructure for a given steel grade requires careful consideration in designing steel chemistry and thermomechanical processing. This presentation will discuss the concept of alloy design and the strategies for thermomechanical processing to achieve desirable mechanical properties for line pipe steels.

AIST ASSOCIATION FOR IRON & STEEL TECHNOLOGY | STEEL PROPERTIES & APPLICATIONS

About Dengqi Bai

Dengqi Bai received his Ph.D. degree in Metallurgical Engineering from McGill University in 1995. He is a world-renowned physical metallurgist with expertise in steel plate products (especially line pipe, weathering, offshore, and ship building), and has made important contributions to understanding structure/property relationships in these products. In the line pipe area, he helped develop X80, X100, and X120. For the past 25 years, he has worked for SSAB (and the former IPSCO) in various research engineering positions. In these positions, he has had increasing responsibility for the development of as-rolled plate products. Since 2010, he has been very active mentoring students, including graduate students at the Colorado School of Mines, Missouri S&T, as well as SSAB Research co-ops and interns. Bai has been very active in AIST/ISS since he became a member in 1999. He helped organize international symposia at MS&T Conferences on Precipitation in Steels (2004) and High Strength Steels for Energy Applications (2012). He is the winner of the AIST Hunt-Kelly Award (2020), a two-time winner of AISI Medal Finalist Award (2022 and 2024), as well as a two-time winner of the Gilbert Speich Award for best paper on the application of physical metallurgy (2008 and 2018), and International Metallographic Society First Place Award (2015). He is the author of 64 publications, and he has two U.S. patents.

PLENARY SESSIONS

TAYLOR D. SPARKS

Professor of Materials Science & Engineering, University of Utah

TMS Plenary Lecture

Making Materials Science Go Viral!

Monday, September 29
2 – 3 p.m.
GCCC, Short North Ballroom B

Materials science is everywhere: in the frames of our bikes, the chips in our phones, and the engines of our vehicles. But too often, the field remains invisible to the world. In a media landscape driven by streaming video, podcasts, and algorithmic discovery, how can we make sure materials science not only reaches new audiences but actually inspires them?

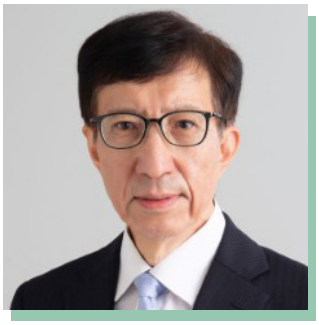
In this talk, I'll share what I've learned from a decade of experimenting with new ways to communicate materials science—through YouTube, the "Materialism" podcast, editorial innovation as Editor-in-Chief of *Integrating Materials and Manufacturing Innovation*, and even helping out behind the scenes on the Discovery Channel's Diesel Brothers. With close to 1,000 videos, podcasts, and digital posts created and shared, I've seen what it takes to make science not just informative but engaging—something people want to watch, listen to, and share.

Whether you're a student, professor, researcher, or editor, this talk will offer practical strategies and real-world examples for how storytelling, short-form video, and scalable digital platforms can help materials science break out of the PDF and into the world.

About Taylor D. Sparks

Taylor D. Sparks is a Professor of Materials Science and Engineering at the University of Utah (UoU). He holds a B.S. in MSE from the UoU, M.S. in Materials from University of California, Santa Barbara, and Ph.D. in Applied Physics from Harvard University. He was a Royal Society Wolfson Visiting Fellow at the University of Liverpool, a recipient of the NSF CAREER Award, and a speaker for TEDxSaltLakeCity. He is active in TMS, MRS, and ACerS societies. He is currently the Editor-in-Chief for the *Integrating Materials and Manufacturing Innovation* and the Director of Graduate Affairs for the John and Marcia Price College of Engineering. When he's not in the lab you can find him running his podcast "Materialism," creating materials educational content for his YouTube channel, or canyoneering with his four kids in southern Utah.

PLENARY SESSIONS



TATSUKI OHJI

Yokohama National University, Nagoya Institute of Technology, and National Institute of Advanced Industrial Science and Technology (AIST), Japan

ACerS Edward Orton Jr. Memorial Lecture

Ceramics for Structural Applications – Overcoming the Challenges of This Formidable Material

Tuesday, September 30
8 – 9 a.m.
GCCC, Short North Ballroom B

Advanced ceramics have excellent heat, corrosion, erosion, and wear resistance and demonstrate superior mechanical properties under demanding conditions. However, their brittle nature and low fracture toughness have posed significant barriers to structural applications. Using silicon nitride—one of the most widely used engineering ceramics—as an example, this talk provides an overview of how ceramic engineers have attempted to overcome this obstacle over the last several decades. One of the most common and effective strategies of toughening ceramics is to deliberately introduce “weak parts” into a “hard” body and induce elastic bridging and frictional pull-out of constituent substances, e.g., elongated grains, thus optimizing the body’s fracture resistance. Much research effort has been devoted to adjusting the characteristics of grain boundaries to function as “weak” parts and tailoring microstructures, e.g., sizes, shapes, and orientations of grains, through innovative processing routes, leading to markedly improved fracture toughness and other properties.

The American Ceramic Society
ceramics.org

About Tatsuki Ohji

Tatsuki Ohji is a Visiting Professor, Yokohama National University (YNU), Japan, and Nagoya Institute of Technology (NITech), Japan. He is also a Program Manager, Defense Innovation Science and Technology Institute (DISTI), Ministry of Defense, Japan, and an Emeritus Research Councilor, National Institute of Advanced Industrial Science and Technology (AIST), Japan. He served as the President of the American Ceramic Society during 2019-2020.

He obtained his B.S. and M.S. in mechanical engineering from NITech and Ph.D. in inorganic materials engineering from Tokyo Institute of Technology. He has authored more than 380 papers and 20 book chapters and edited more than 40 books and conference volumes. He has chaired more than 50 international conferences and symposia. His research interests include properties characterization of ceramics and related materials and their microstructural design for better performance.

A Fellow of ACerS, the American Association for the Advancement of Science (AAAS), ASM International, the European Ceramic Society (ECerS), and the Ceramic Society of Japan (CerSJ) and an Academician of the World Academy of Ceramics, he has received numerous awards and honors, including the Distinguished Life member (ACerS’s highest honor), W. David Kingery Award, John Jeppson Award, Samuel Geijsbeek PACRIM International Award, and ECD Mrityunjay Singh Bridge Building Award all from ACerS, Richard Brook Award from ECerS, Special Contribution Award from the Chinese Ceramic Society, Bhagat Memorial Lecture Award from the Indian Ceramic Society, Honour Medal of Aurel Stodola from the Slovak Academy of Science, Lee Hsun Lecture Award from the Chinese Academy of Sciences, and Academic Achievement Award from CerSJ. He is a Governor of Acta Materialia Inc. and an Editor of *Journal of the American Ceramic Society and Ceramics International.*

DOWNTOWN HOTELS

A. Moxy Columbus Short North
B. Graduate Columbus
C. Le Méridien Columbus, The Joseph
D. AC Hotel Columbus Downtown
E. Hampton Inn & Suites Columbus Downtown
F. Hilton Columbus Downtown
G. Hyatt Regency Columbus
H. Drury Plaza Columbus
I. Sonesta Columbus Downtown
J. Canopy by Hilton Columbus Downtown Short North
K. Red Roof PLUS+ Columbus Downtown – Convention Center

SHORT NORTH ARTS DISTRICT

1. Stauf's Coffee Roasters.....$ B
2. The Buckeye Lady.....$
3. Condado Tacos.....$ LD
4. Service Bar / Middle West Spirits.....$$$ D
5. ['plas].....$$$ D
6. Bristol Republic.....$$ D
7. Fours on High.....$$ D
8. Terrace Bar.....$$
9. Seventh Son Brewing.....$ D
10. Budd Dairy Food Hall.....$$ D
11. Fox in the Snow Cafe.....$$ BL
12. Bodega.....$$ D
13. Northstar Cafe.....$$ BLD
14. Katalina's.....$$
15. Oddfellows Liquor Bar .....$
16. **Mikey's Late Night Slice** ..$ D
17. Fireproof Short North.....$$ D
18. Ampersand Asian Supper Club.....$$ LD
19. Black Brick Bar.....$$
20. **Roaming Goat Coffee**.....$
21. Hubbard Grille.....$$
22. Galla Park Social. .....$$$ D
23. Wine on High.....$$
24. **DraftKings Sports & Social**.$$ LD
25. The Eagle .....$$ LD
26. **Union Cafe**.....$$ LD
27. **Short North Pint House**...$$ D
28. Basi Italia.....$$$ D
29. The Lox Bagel Shop .....$$ BL
30. One Line Coffee .....$ B
31. Bakersfield.....$$ LD
32. Shake Shack .....$$ LD
33. Forno Kitchen + Bar .....$$ D
34. Jeni's Splendid Ice Creams .$$
35. 698 Asian Kitchen .....$$$ LD
36. sweetgreen.....$$ LD
37. Lincoln Social Rooftop.....$$ D
38. SoCal Kitchen + Bar .....$$$ D
39. Lemongrass Fusion Bistro .$$ LD
40. Brassica.....$$ LD
41. The Pearl.....$$ D
42. The Guild House.....$$$ BLD
43. Soul at The Joseph .....$$ BLD
44. Marcella's.....$$ D
45. ROOH Columbus.....$$$ D
46. Hyde Park Prime Steakhouse.....$$$$ D
47. Ginger Rabbit Jazz Lounge
48. Woodhouse Vegan.....$
49. Greater Columbus Convention Center .....$ BLD
50. Ruth's Chris Steak House ..$$$ D
51. Novak's Tavern & Patio .....$$
52. Parlay Sporting Club and Kitchen.....$$ D
53. Brewcadia .....$$ D
54. **Barley's Brewing Company** .....$$ LD
55. Denmark.....$$ D
56. Martini Modern Italian .....$$$ D
57. FYR Short North.....$$$ BLD
58. Stories on High.....$$ D

ARENA DISTRICT

1. North Market: **American Nut Company**, Jeni's Splendid Ice Creams, Stauf's Coffee Roasters, **Hot Chicken Takeover**, **Dos Hermanos,** Hoyos Kitchen, Littleton's Market Bakery ...$ BLD
2. Lumin Sky Bar & Kitchen...$$ D
3. Moran's Bar and Grill .....$$ LD
4. Creole 2 Geaux ..... $$ LD
5. **Whistle & Keg** ..... $
6. Nada Restaurant.....$$ D
7. Sunny Street Café .....$$ BL
8. Boston's Gourmet Pizza.....$$ LD
9. Ted's Montana Grill.....$$ LD
10. Si Señor .....$ L
11. Warios.....$$ LD
12. Rodizio Grill.....$$$ D
13. Vine + Forge .....$$ BLD
14. Goodale Station.....$$$ D
15. Jeff Ruby's Steakhouse.....$$$$ D

Icon Key: ● = Bar Only ● = Patio ● = Rooftop ● = Minority-Owned Business. BLD = On weekdays, regularly serves: Breakfast (B), Lunch (L), Dinner (D). Average entrée price: $ = Under $10, $$ = $10-$30, $$$ = $31-$60, $$$$ = above $61. Restaurant hours vary. **Bold** denotes Attendee Savings Pass participants.

Download the Attendee Savings Pass for deals and discounts

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We have an excellent and long-standing reputation for Metallic Single Crystals, Sputtering Targets, Superconductor substrates, Laser Crystals, Optical Materials, Opto-Electronic Components, and various Oxide Crystalline Materials within the scientific community.

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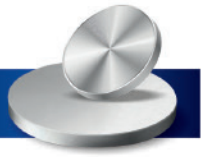
SPUTTERING TARGETS



- BORIDES
- CARBIDES
- FLUORIDES
- NITRIDES
- METALS
- RARE EARTH
- OXIDES
- ALLOYS
- SULFIDES / SELENIDES / TELLURIDES

EVAPORATION MATERIALS

- CHUNK
- FOIL
- PELLET PIECES
- WIRE
- ROD
- SHOT
- SLUG
- STARTER
- SOURCE
- TABLET
- GRANULES

LASER CRYSTALS

- KTO
- KTA
- KDP
- BBO
- LiNbO3
- LiTaO3
- Cr:YAG
- MgO:LiNbO3
- YAG Crystals
- YLF Crystals
- YSGG Crystals
- YAP Crystals
- Other: Alexandrite, Ti:Sapphire, Forsterite, Nd:YVO4, Diffusion bonded crystals

METAL SINGLE CRYSTALS

Metal single crystals are required for basic research (surface physics, catalytic chemistry, investigation of material properties), for monochromators (X-ray, neutrons) and electrons (W-needles, LaB6, CeB6).

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Technical Meeting and Exhibition
MS&T25
MATERIALS SCIENCE & TECHNOLOGY

The American Ceramic Society Annual Meeting | AIST Steel Properties & Applications | TMS Fall Meeting | EP Event Partners

CONFERENCE PERKS

Your MS&T Full Conference Registration Includes:

- ✔ **MS&T Partners All-Conference Welcome Breakfast (Monday)**
- ✔ **Technical Sessions (Monday – Wednesday)**
- ✔ **Exhibition & Poster Session**
- ✔ **Tuesday Lunch Ticket (Full Conference Attendees/Students)**
- ✔ **Wednesday Lunch Ticket (Full Conference Attendees Only)**

Nursing Mother's Room
The GCCC has a designated nursing mother's room located on the Central Atrium. GCCC also has family restrooms located in Upper A-Pod (behind room A-210) and another in the Center Lounge restrooms near the South Café & Marketplace. These single-use areas are equipped with a seat, electricity, and a lockable door.

All-Gender Restroom
The all-gender restroom at the GCCC will be on the 2nd level in B-Pod, and at the Hyatt on the 3rd floor, Regency North restrooms.

Complimentary WIFI
There is complimentary WIFI at the Greater Columbus Convention Center. Access at network GCCC Free WIFI. It is free in all meeting rooms and public spaces except the Short North Ballroom and Exhibit Halls C/D.

First Aid
- **Saturday, September 27, 2025** - 8:30 a.m. – 5 p.m. • GCCC, Show Hall Office C
- **Sunday, September 28, 2025** - 12 – 5 p.m. • GCCC, B140
- **Monday, September 29, 2025** - 7 a.m. – 6 p.m. • GCCC, B140
- **Tuesday, September 30, 2025** - 7 a.m. – 6:30 p.m. • GCCC, B140

Make the Most of MS&T25!
Scan the QR code to download the MS&T app.

CALENDAR OF EVENTS

Schedule is subject to change. Check the conference app for the most up to date information.

Friday, September 26, 2025

Committee and Business Meetings

ACerS President's Council of Student Advisors (PCSA) Business Meeting
3 – 7:30 p.m. • Hyatt Regency Columbus, Franklin AB

Saturday, September 27, 2025

Committee and Business Meetings

ACerS President's Council of Student Advisors (PCSA) Business Meeting
7 a.m. – 5:30 p.m. • Hyatt Regency Columbus, Franklin AB
ACerS Board of Directors Meeting
8:30 a.m. – 5 p.m. • Hyatt Regency Columbus, Taft AB

Exhibition

Exhibitor Move-In: Custom-Builds Only
8 a.m. – 5 p.m. • GCCC, Exhibit Hall C/D

Sunday, September 28, 2025

Conference Activities

Registration
12 – 5 p.m. • GCCC, North Atrium
Society Lounges
12 – 5 p.m. • GCCC, North Atrium
Programming Support Desk
2 – 5 p.m. • GCCC, Outside C170

Committee and Business Meetings

ACerS Keramos National Board and Business Meeting
7 – 8 a.m. • Hyatt Regency Columbus, Hyatt Restaurant
ACerS President's Council of Student Advisors (PCSA) Business Meeting
7 a.m. – 12 p.m. • Hyatt Regency Columbus, Franklin AB
ACerS Keramos Student Chapter Business Meeting
8 – 9 a.m. • Hyatt Regency Columbus, Taft AB
TMS Board of Directors Business Meeting (Restricted)
8 a.m. – 12 p.m. • Hyatt Regency Columbus, Union AB
ACerS Keramos Convocation & Business Meeting
9 – 11 a.m. • Hyatt Regency Columbus, Taft AB

CALENDAR OF EVENTS

Sunday, September 28, 2025

ACerS Keramos Career Speaker
11 a.m. – 12 p.m. • Hyatt Regency Columbus, Taft AB
ACerS Publications Committee Meeting
12 – 3 p.m. • Hyatt Regency Columbus, Harding
CGIF Board of Trustees Meeting
12 – 5 p.m. • Hyatt Regency Columbus, Taft D
TMS Technical Division Council (TDC) Meeting - Invitation Only
1:30 – 3:30 p.m. • Hyatt Regency Columbus, Knox
JACerS Editor/AE Meeting
3 – 4 p.m. • Hyatt Regency Columbus, Harding
TMS Program Committee Meeting - Invitation Only
4 – 6 p.m. • Hyatt Regency Columbus, Knox

Material Advantage Student Functions

Material Advantage Chapter (MAC) Officer Workshop
10 a.m. – 12 p.m. • Hyatt Regency Columbus, Franklin CD
Undergraduate Student Speaking Contest Semi-Finals
1 – 3 p.m. • Hyatt Regency Columbus, Morrow/Fairfield
Undergraduate Student Speaking Contest Finals
3 – 4 p.m. • Hyatt Regency Columbus, Fairfield
Student Networking Mixer
6 – 7:30 p.m. • Hyatt Regency Columbus, Regency Ballroom

Posters

ACerS Basic Science Division Ceramographic Exhibit and Competition Poster Set Up
12 – 5 p.m. • GCCC, 1st Level Concourse - B Pod

Monday, September 29, 2025

Conference Activities

Registration
7 a.m. – 6 p.m. • GCCC, North Atrium
Programming Support Desk
7 a.m. – 6 p.m. • GCCC, Outside C170
Society Lounges
7 a.m. – 6 p.m. • GCCC, North Atrium
MS&T Technical Sessions
8 a.m. – 5:30 p.m. • GCCC

CALENDAR OF EVENTS

Monday, September 29, 2025

Exhibition

Exhibitor Move-In: Custom-Builds Only
8 a.m. – 5 p.m. • GCCC, Exhibit Hall C/D
Exhibitor Move-In: All Exhibitors
9 a.m. – 5 p.m. • GCCC, Exhibit Hall C/D
Exhibitor Badge-Lead Retrieval Collection
12 – 5 p.m. • GCCC, North Atrium

Committee and Business Meetings

ACerS Education and Professional Development Council (EPDC)
10 a.m. – 12 p.m. • GCCC, B144/145
AIST University and Industry Relations Roundtable
10:30 a.m. – 1 p.m. • Hyatt Regency Columbus, Franklin CD
TMS Executive Committee Meeting (Restricted)
11:30 a.m. – 1 p.m. • Hyatt Regency Columbus, Champaign
IGNITE MSE ACerS Mentors Luncheon - Invitation Only
11:30 a.m. – 1 p.m. • GCCC, D284
Engineering Ceramics Division General Business Meeting
12 – 1 p.m. • GCCC, B231
Electronics Division General Business Meeting
12 – 1 p.m. • GCCC, B130
TMS Integrated Computational Materials Engineering (ICME) Committee Meeting
12:15 – 1:45 p.m. • Hyatt Regency Columbus, Knox
AIST Foundation Board of Trustees
2 – 5 p.m. • Hyatt Regency Columbus, Franklin B
Energy Materials & Systems Division General Business Meeting
5:30 – 6:30 p.m. • GCCC, B231

Plenary Sessions

AIST Plenary Session
8 – 9 a.m. • GCCC, Short North Ballroom B
TMS Plenary Session
2 – 3 p.m. • GCCC, Short North Ballroom B

Lectures

The Navrotsky Award for Experimental Thermodynamics of Solids
8 – 8:55 a.m. • GCCC, B142/143
Next Generation Biomaterials - ACerS Bioceramics Division Award Session
9 – 10 a.m. • GCCC, C171
ACerS Richard M. Fulrath Award Session
2:20 – 4:40 p.m. • GCCC, B131

CALENDAR OF EVENTS

Monday, September 29, 2025

Material Advantage Student Functions

AIST Student Plant Tour at Nucor Steel Marion
8 a.m. – 1 p.m. • GCCC, East Connector
Master the Job Hunt: Interviewing and Negotiation Essentials
3 – 4 p.m. • Hyatt Regency Columbus, Fairfield

Posters

ACerS Basic Science Division Ceramographic Exhibit and Competition Display
8 a.m. – 6 p.m. • GCCC, 1st Level Concourse - B Pod
General Poster Installation
2 – 4 p.m. • GCCC, Exhibit Hall C/D
Undergraduate and Graduate Poster Contest Installation
2 – 4 p.m. • GCCC, Exhibit Hall C/D

Social Functions

MS&T Partners' All-Conference Welcome Breakfast
7 – 8 a.m. • GCCC, Short North Ballroom A
ACerS Annual Honor and Awards Reception
6 – 6:30 p.m. • Hyatt Regency Columbus, Regency South Foyer
AIST Steel to Students Reception
6 – 8 p.m. • Hyatt Regency Columbus, Franklin CD
ACerS Annual Honor and Awards Banquet
6:30 – 9 p.m. • Hyatt Regency Columbus, Regency Ballroom
TMS Member Welcome & Get Involved Reception
8 – 9 p.m. • Hyatt Regency Columbus, Union AB Ballroom

Annual Meetings

ACerS 127th Annual Member Meeting
1 – 2 p.m. • GCCC, B131

Professional Development

PE Curious: How Licensure Shaped Our Careers Sponsored by the TMS Professional Development Committee
4:30 – 6 p.m. • GCCC, C161B

Tuesday, September 30, 2025

Conference Activities

Registration
7 a.m. – 6 p.m. • GCCC, North Atrium

CALENDAR OF EVENTS

Tuesday, September 30, 2025

Programming Support Desk
7 a.m. – 6 p.m. • GCCC, Outside C170
Society Lounges
7 a.m. – 6 p.m. • GCCC, North Atrium
MS&T Technical Sessions
8 a.m. – 5 p.m. • GCCC

Exhibition

Exhibit Hall Registration
8 a.m. – 5 p.m. • GCCC, North Atrium
Exhibitor Hall Access
8 a.m. – 6:30 p.m. • GCCC, Exhibit Hall C/D
Exhibit Hall Show Hours
9 a.m. – 4:30 p.m. • GCCC, Exhibit Hall C/D
The Advanced Materials Show Sessions
10 a.m. – 4:20 p.m. • GCCC, Exhibit Hall C/D
MS&T Food Court (Ticketed Event)
12 – 2 p.m. • GCCC, Exhibit Hall C/D
Networking Reception Hosted by Advanced Carbons Council
4:30 – 6 p.m. • GCCC, Exhibit Hall C/D

Committee and Business Meetings

ACerS Meetings Committee
10 – 11:30 a.m. • GCCC, B144/145
Basic Science Division General Business Meeting
12 – 1 p.m. • GCCC, B232
Glass & Optical Materials Division General Business Meeting
12 – 1 p.m. • GCCC, B130
ACerS Member Services Committee
12 – 2 p.m. • GCCC, B144/145
TMS International Affairs Committee Meeting (Restricted)
12 – 2 p.m. • Hyatt Regency Columbus, Champaign
AIST Metallurgy-Processing, Products and Applications Technical Committee Meeting
12 – 2 p.m. • Hyatt Regency Columbus, Franklin CD
ACerS Member Engagement Subcommittee Meeting
2 – 3:30 p.m. • GCCC, B144/145
Crafting Your Story: Using the CAR Framework to Communicate with Clarity and Impact (Pre-Registration Required)
4 – 5 p.m. • Hyatt Regency Columbus, Union AB
TMS Steels Committee Meeting
5 – 6 p.m. • Hyatt Regency Columbus, Knox

CALENDAR OF EVENTS

Tuesday, September 30, 2025

Plenary Session
ACerS Plenary Session
8 – 9 a.m. • GCCC, Short North Ballroom B

Lectures
ACerS Alfred R. Cooper Award Session
9:20 a.m. – 12 p.m. • GCCC, B132
TMS Frontiers of Materials Award Lecture
10:20 – 10:50 a.m. • GCCC, Room C162A
ACerS Frontiers of Science and Society - Rustum Roy Lecture
1 – 2 p.m. • GCCC, B131

Material Advantage Student Functions
Mug Drop Contest Sponsored by FAMU-FSU College of Engineering
10:30 a.m. – 12 p.m. • GCCC, Exhibit Hall C/D
Disc Golf Contest
12 – 1 p.m. • GCCC, Exhibit Hall C/D
Student Awards Ceremony
2 – 3 p.m. • GCCC, Exhibit Hall C/D

Posters
General Poster Install
8 – 9 a.m. • GCCC, Exhibit Hall C/D
Graduate Student Poster Contest Install
8 – 9 a.m. • GCCC, Exhibit Hall C/D
Undergraduate Student Poster Contest Install
8 – 9 a.m. • GCCC, Exhibit Hall C/D
ACerS Basic Science Division Ceramographic Exhibit & Competition Display
8 a.m. – 5 p.m. • GCCC, 1st Level Concourse - B Pod
Graduate Student Poster Contest Judging
10 – 11 a.m. • GCCC, Exhibit Hall C/D
Undergraduate Student Poster Contest Judging
10 – 11 a.m. • GCCC, Exhibit Hall C/D
Graduate Student Poster Judging with Presenters
11 a.m. – 12 p.m. • GCCC, Exhibit Hall C/D
Undergraduate Student Poster Judging with Presenters
11 a.m. – 12 p.m. • GCCC, Exhibit Hall C/D
General Poster Session Viewing
2 – 5 p.m. • GCCC, Exhibit Hall C/D
Graduate Student Poster Viewing
2 – 5 p.m. • GCCC, Exhibit Hall C/D

CALENDAR OF EVENTS

Tuesday, September 30, 2025

Undergraduate Student Poster Viewing
2 – 5 p.m. • GCCC, Exhibit Hall C/D
General Poster Session Presentations
5 – 6 p.m. • GCCC, Exhibit Hall C/D

Social Functions
Energy Material & Systems Division and Electronic Division Reception
6 – 7:30 p.m. • Hyatt Regency Columbus, Grant/Harding

Wednesday, October 1, 2025

Conference Activities
Registration
7:30 a.m. – 3:30 p.m. • GCCC, North Atrium
Programming Support Desk
7:30 a.m. – 5:30 p.m. • GCCC, Outside C170
Society Lounges
7:30 a.m. – 3:30 p.m. • GCCC, North Atrium
MS&T Technical Sessions
8 a.m. – 5:30 p.m. • GCCC

Exhibition
Exhibitor Hall Access
8 a.m. – 3 p.m. • GCCC, Exhibit Hall C/D
Exhibit Hall Registration
8 a.m. – 3 p.m. • GCCC, North Atrium
Exhibit Hall Show Hours
9 a.m. – 3 p.m. • GCCC, Exhibit Hall C/D
Advanced Carbons Council Sessions
10 a.m. – 3 p.m. • GCCC, Exhibit Hall C/D
MS&T Food Court (Ticketed Event)
12 – 2 p.m. • GCCC, Exhibit Hall C/D
Exhibitor Move-Out (All Exhibitors)
3 – 8 p.m. • GCCC, Exhibit Hall C/D

CALENDAR OF EVENTS

Wednesday, October 1, 2025

Committee and Business Meetings

ACerS Young Professionals Networking Breakfast
7 – 8 a.m. • GCCC, D284

TMS/ACerS MS&T Taskforce Meeting
9 – 10 a.m. • GCCC, B144/145

Lectures

ACerS Basic Science Division Robert B. Sosman Lecture
1 – 2 p.m. • GCCC, B131

Posters

ACerS Basic Science Division Ceramographic Exhibit & Competition Display
8 a.m. – 12 p.m. • GCCC, 1st Level Concourse - B Pod

Graduate Student Poster Contest Viewing
9 a.m. – 3 p.m. • GCCC, Exhibit Hall C/D

General Poster Viewing
9 a.m. – 3 p.m. • GCCC, Exhibit Hall C/D

Undergraduate Student Poster Contest Viewing
9 a.m. – 3 p.m. • GCCC, Exhibit Hall C/D

ACerS Basic Science Division Ceramographic Exhibit Dismantle
12 – 1 p.m. • GCCC, 1st Level Concourse - B Pod

General Poster Session Removal
3 – 4 p.m. • GCCC, Exhibit Hall C/D

Graduate Student Poster Contest Dismantle
3 – 4 p.m. • GCCC, Exhibit Hall C/D

Undergraduate Student Poster Contest Dismantle
3 – 4 p.m. • GCCC, Exhibit Hall C/D

LECTURES

Monday, September 29

ACerS The Navrotsky Award for Experimental Thermodynamics of Solids

8 – 8:55 a.m. • GCCC, Room B142/143
Speaker: Konrad Burkmann, Arizona State University

Next Generation Biomaterials - ACerS Bioceramics Division Award Session

9 – 10 a.m. • GCCC, Room C171

Global Young Bioceramicist Award
Antonia Ressler, Tampere University
Bioceramics Young Scholar Award
Sayoni Sarkar, ETH Zurich
Larry L. Hench Lifetime Award
Aldo Boccaccini, University of Erlangen-Nuremberg

ACerS Richard M. Fulrath Award Session

2:20 – 4:40 p.m. • GCCC, Room B131

This session will feature the following presenters:
American Academic
Lane Martin, Rice University
Japanese Industrial
Shota Daiki, Tokuyama Corporation
American Industrial
Nathan Orloff, National Institute of Standards and Technology
Japanese Industrial
Satoshi Mori, Niterra Co., Ltd.
Japanese Academic
Takashi Teranishi, Okayama University

Tuesday, September 30

ACerS GOMD Alfred R. Cooper Award Session

9:20 a.m. – 12 p.m. • GCCC, Room B132
Speaker: Morten Smedskjaer, Aalborg University

2025 Alfred R. Cooper Young Scholar Award Presentations:
Jake Klucinec, University of Central Florida
Chris Martin, Iowa State University
Wuqian Zhang, Swarthmore College
Harry Hawbaker, Coe College

TMS Frontiers of Materials Award Lecture

10:20 – 10:50 a.m. • GCCC, Room C162A
Speaker: Yu Zou, University of Toronto

ACerS Frontiers of Science and Society – Rustum Roy Lecture

1 – 2 p.m. • GCCC, Room B131
Speaker: Ungyu Paik, Hanyang University

Wednesday, October 1

ACerS Basic Science Division Robert B. Sosman Lecture

1 – 2 p.m. • GCCC, Room B131
Speaker: Sossina Haile, Northwestern University

SPECIAL EVENTS

Monday, September 29

MS&T Partners' All-Conference Welcome Breakfast

7 – 8 a.m. • GCCC, Short North Ballroom A

Enjoy this opportunity to network and enjoy breakfast with professionals and peers in a relaxed environment.

ACerS Basic Science Division Ceramographic Exhibit & Competition

8 a.m. – 6 p.m. • GCCC, 1st Level Concourse - B Pod

ACerS 127th Annual Membership Meeting

1 – 2 p.m. • GCCC, B131

The president reports on Society activities, and newly elected officers take their positions during the annual membership meeting. All ACerS members and guests are welcome.

PE Curious: How Licensure Shaped Our Careers Sponsored by the TMS Professional Development Committee

4:30 – 6 p.m. • GCCC, Room C161B

Have you ever wondered if pursuing a Professional Engineer (PE) license is worth it? Join us for a candid, 90-minute panel discussion featuring licensed PE professionals from diverse backgrounds who will share their journeys to licensure, the challenges they faced, and how becoming a PE impacted their careers. Whether you're seriously considering taking the PE exam or just exploring your options, this session will give you real-world insight into the value of professional licensure in engineering. Bring your questions—we'll bring honest answers.

ACerS Annual Honor and Awards Banquet

TICKETED EVENT

6:30 – 9 p.m. • Hyatt Regency Columbus, Regency Ballroom

Enjoy dinner, conversation, and the presentation of Society awards. You can purchase tickets through the MS&T25 Registration platform.

Monday, September 29

TMS Member Welcome & Get Involved Reception

8 – 9 p.m. • Hyatt Regency Columbus, Union AB Ballroom

Tuesday, September 30, 2025

ACerS Basic Science Division Ceramographic Exhibit & Competition

8 a.m. – 5 p.m. • GCCC, 1st Level Concourse - B Pod

Crafting your Story: Using the CAR Framework to Communicate with Clarity and Impact

REGISTRATION REQUIRED

4 – 5 p.m. • Hyatt Regency Columbus, Union AB

Whether you're speaking with a recruiter, preparing for an interview, or aiming to have more effective conversations with your advisor, being able to tell your story clearly and compellingly is a critical skill. In this interactive workshop, members of the Emerging Professional Committee will guide participants through the CAR (Circumstance, Action, Result) framework—a powerful tool for structuring narratives that highlight your strengths and achievements. The session will begin with an overview of the CAR method and as well as provide examples of how to apply it in professional contexts. Attendees will then break out into small groups to practice crafting and sharing their own stories, with opportunities for feedback from peers and facilitators. While this workshop is open to all MS&T attendees, pre-registration is required.

Networking Reception

4:30 – 6 p.m. • GCCC, Exhibit Hall C/D

Join us for the drinks reception in the expo hall. A great opportunity to connect with fellow attendees, students, and exhibitors of The Advanced Materials Show. Sponsored by The Advanced Carbons Council (ACC). A global trade association that supports the production, adoption and use of engineered advanced carbons.

Wednesday, October 1, 2025

ACerS Basic Science Division Ceramographic Exhibit & Competition

8 a.m. – 12 p.m. • GCCC, 1st Level - Lower B Pod Foyer

STUDENT EVENTS

Sunday, September 28, 2025

Materials Advantage Chapter Officer Workshop

10 a.m. – 12 p.m. • Hyatt Regency Columbus, Franklin CD

REGISTRATION REQUIRED

Network and share best practices! This year's Chapter Officer Workshop will take place on Sunday, September 28 from 10:00 a.m. to 12:00 p.m. This workshop provides a detailed introduction to the Material Advantage Student Program for Chapter officers.

Registration is required for this workshop as well as for MS&T. This workshop is for Material Advantage Chapter Officers only.

2025 Undergraduate Student Speaking Contest

Semi-Final One: 1 – 3 p.m. • Hyatt Regency Columbus, Fairfield
Semi-Final Two: 1 – 3 p.m. • Hyatt Regency Columbus, Morrow
Finals: 3 – 4 p.m. • Hyatt Regency Columbus, Fairfield

Student Networking Reception

Time: 6 – 7:30 p.m. • Hyatt Regency Columbus, Regency Ballroom

Join us for a lively evening of connection and conversation at the MS&T 2025 Student Networking Reception! This informal gathering offers students a valuable opportunity to meet peers from across the materials science community and engage with industry professionals in a relaxed, welcoming atmosphere. The reception is open to all students and faculty advisors—no tickets or reservations needed. Please note: An official MS&T conference badge is required for entry.

Monday, September 29, 2025

AIST Student Plant Tour (Nucor Steel Marion)

8 a.m. – 1 p.m. • GCCC, East Connector

AIST will offer students the opportunity to tour a local steel plant. Students registered for MS&T25 before August 18, 2025 will be contacted by e-mail to sign up. Advance registration is required.

IGNITE MSE Professional Development Symposium

9 – 11:30 a.m. • GCCC, C161B

IGNITE MSE (International Gathering and Networking for Individuals to Explore Materials Science and Engineering) is a symposium designed to help students and early career professionals develop the knowledge, skills, and connections they need for career success. Invited speakers from academia and industry will cover topics such as navigating global work environments, choosing between academic and industry career paths, and participating in STEM outreach.

Master the Job Hunt: Interviewing and Negotiation Essentials

3 – 4 p.m. • Hyatt Regency Columbus, Fairfield

REGISTRATION REQUIRED

Navigating the job market after graduation can be challenging, but with the right skills, you can confidently land the position you want and negotiate a fair offer. In this interactive session, you'll learn how to prepare for and ace your job interviews by effectively communicating your strengths and experiences. We'll also cover essential negotiation strategies to help you advocate for your value and secure the offer you deserve. This is a can't-miss opportunity to learn best practices from a HR pro!

AIST Foundation Steel to Students Recruiting Reception

6 – 8 p.m. • Hyatt Regency Columbus, Franklin CD

Position yourself ahead of your peers by attending the Steel to Students Recruiting Reception held in conjunction with MS&T25! The reception is a golden opportunity to meet established professionals and hiring managers interested in investing in the next generation of the steel industry. Take advantage of the opportunity to network and maybe even secure an internship or job after graduation!

STUDENT EVENTS

Tuesday, September 30, 2025

2025 Undergraduate Student Poster Contest

GCCC, Exhibit Hall C/D

The purpose of this contest is to encourage undergraduate students to present their undergraduate research experiences and to improve their communication skills. The poster entered must be the work of an undergraduate and completed during the undergraduate education of the student. The work presented in the poster does not have to be performed at the student's home institution, but could be, for example, from a project performed as part of a co-op experience, a summer internship, or a Research Experience for Undergraduates (REU) project.

Undergraduate Student Poster Schedule:

- **Tuesday, September 30: Poster Installation** 8 – 9 a.m.
- **Tuesday, September 30: Judges Only Time** 10 – 11 a.m.
- **Tuesday, September 30: Poster Judging with Contestants** 11 a.m. – 12 p.m.
- **Wednesday, October 1: Poster Removal** 3 – 4 p.m.

Tuesday, September 30, 2025

2025 Graduate Student Poster Contest

GCCC, Exhibit Hall C/D

The purpose of this contest is to encourage graduate students to present their graduate research experiences and to improve their communication skills. The poster entered must be the work of a graduate student and completed during the graduate education of the student. The work presented in the poster does not have to be performed at the student's home institution, but could be, for example, from a project performed as part of a co-op experience or a summer internship.

Graduate Student Poster Schedule:

- **Tuesday, September 30: Poster Installation** 8 – 9 a.m.
- **Tuesday, September 30: Judges Only Time** 10 – 11 a.m.
- **Tuesday, September 30: Poster Judging with Contestants** 11 – 12 p.m.
- **Wednesday, October 1: Poster Removal** 3 – 4 p.m.

Tuesday, September 30, 2025

Ceramic Mug Drop Contest Sponsored by FAMU-FSU College of Engineering

10:30 a.m. – 12 p.m. • GCCC, Exhibit Hall C/D

The Ceramic Mug Drop contest allows students to demonstrate their prowess in designing and manufacturing a ceramic mug possessing high strength, mechanical reliability, and/or aesthetics. Mugs fabricated by students from ceramic raw materials are judged (separately) on aesthetics and then by dropping them from ever-increasing heights. The mug with the highest successful drop height will win! Please note that students who chose to make fiber-reinforced mugs may use individual commercial fibers in the construction of their mug, but the use of commercially woven mats is not allowed. Each participant may register their mug(s) onsite.

STUDENT EVENTS

Tuesday, September 30, 2025

Ceramic Disc Golf Contest

12 – 1 p.m. • GCCC, Exhibit Hall C/D

The Ceramic Disc Golf Contest always draws a crowd! Students create discs from ceramic or glass materials to meet certain specifications, and the discs are thrown into a regulation disc golf basket. Each disc will be judged in the categories of farthest distance achieved and artistic merit (aesthetics). The disc that is successfully thrown into the disc golf basket from the farthest distance in the fewest number of shots will be named winner of the Ceramic Disc Golf Contest, and the most aesthetically pleasing/creative disc will be recorded as "Best Looking" disc. Each participant may register their disc(s) onsite.

Student Awards Ceremony

2 – 3 p.m. • GCCC, Exhibit Hall C/D

Congratulate the winners of this year's contests: Material Advantage Chapters of Excellence, Student Speaking Contest, Graduate and Undergraduate Poster Contests, Ceramic Mug Drop Contest, Ceramic Disc Golf Contest, TMS Superalloys Awards, AIST/AISI Scholarships, and Keramos National Awards.

Crafting Your Story: Using the CAR Framework to Communicate with Clarity and Impact Sponsored by the TMS Emerging Professionals Committee

4 – 5 p.m. • Hyatt Regency Columbus, Union AB

REGISTRATION REQUIRED

Whether you're speaking with a recruiter, preparing for an interview, or aiming to have more effective conversations with your advisor, being able to tell your story clearly and compellingly is a critical skill. In this interactive workshop, members of the Emerging Professional Committee will guide participants through the CAR (Circumstance, Action, Result) framework—a powerful tool for structuring narratives that highlight your strengths and achievements. The session will begin with an overview of the CAR method and as well as provide examples of how to apply it in professional contexts. Attendees will then break out into small groups to practice crafting and sharing their own stories, with opportunities for feedback from peers and facilitators. While this workshop is open to all MS&T attendees, pre-registration is required.

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UPCOMING CONFERENCES

The Making, Shaping and Treating of Steel: 101
October 7-8, 2025 | Birmingham, AL, USA
Sponsor: AIST

Specialty Melting, Refining and Casting – A Practical Training Seminar
October 7-9, 2025 | Birmingham, AL, USA
Sponsor: AIST

Hot Sheet and Plate Rolling Fundamentals – A Practical Training Seminar
October 13-16, 2025 | Mobile, AL, USA
Sponsor: AIST

Continuous Casting – A Practical Training Seminar
October 14-16, 2025 | Indianapolis, IN, USA
Sponsor: AIST

AIST European Steel Forum 2025
October 21-23, 2025 | Bilbao, Spain
Sponsor: AIST

Steelmaking Refractories – A Practical Training Seminar
October 21-23, 2025 | Cincinnati, OH, USA
Sponsor: AIST

Artificial Intelligence in Materials Science and Engineering
October 27-29, 2025 | Online Course
Sponsor: TMS

Environmental Solutions: Water Systems Management
October 28-30, 2025 | Louisville, KY, USA
Sponsor: AIST

Maintenance Solutions: Predict, Prevent, Perform
November 4-6, 2025 | San Antonio, TX, USA
Sponsor: AIST

Extraction 2025 Meeting & Exhibition (Extraction 2025)
November 16-20, 2025 | Phoenix, AZ, USA
Sponsor: TMS

Materials in Nuclear Energy Systems 2025 (MiNES 2025)
December 7-11, 2025 | Cleveland, OH, USA
Sponsor: TMS

Golden Jubilee Celebration of the 50th International Conference and Expo on Advanced Ceramics and Composites (ICACC 2026)
January 25-30, 2026 | Daytona Beach, FL, USA
Sponsor: ACerS

Project Management 201
January 26-28, 2026 | Orlando, FL, USA
Sponsor: AIST

Modern Electric Furnace Steelmaking
February 2-6, 2026 | Las Vegas, NV, USA
Sponsor: AIST

Long Products Rolling
February 23-26, 2026 | Memphis, TN, USA
Sponsor: AIST

Scrap Supplements and Alternative Ironmaking 10
March 9-11, 2026 | Orlando, FL, USA
Sponsor: AIST

TMS 2026 Annual Meeting & Exhibition (TMS2026)
March 15-19, 2026 | San Diego, CA, USA
Sponsor: TMS

Ceramitec
March 22-27, 2026 | Munchen, Germany
Sponsor: ACerS

UPCOMING CONFERENCES

Refractories Ceramics Division and St. Louis Section Meeting (RCD 2026)
March 24-26, 2026 | St. Louis, MO, USA
Sponsor: ACerS

ACerS Spring Meeting
April 12-16, 2026 | Bellevue, WA, USA
Sponsor: ACerS

AISTech 2026 – The Iron & Steel Conference & Exposition
May 4-6, 2026 | Pittsburgh, PA, USA
Sponsor: AIST

Ceramics Expo
May 4-6, 2026 | Cleveland, OH, USA
Sponsor: ACerS

Offshore Technology Conference 2026 (OTC 2026)
May 4-7, 2026 | Houston, TX, USA
Sponsor: TMS

12th International Conference on High Temperature Ceramic Matrix Composites (HTCMC-12) and 3rd Global Forum on Advanced Materials and Technologies for Sustainable Development (GFMAT-3)
May 31-June 5, 2026 | San Diego, CA, USA
Sponsor: ACerS

32nd Annual Crane Symposium
June 7-10, 2026 | Pittsburgh, PA, USA
Sponsor: AIST

Solid State Studies in Ceramic Science Gordon Research Conference
June 7-12, 2026 | South Hadley, MA, USA
Sponsor: ACerS

Structural Clay Products Division & Southwest Section Meeting 2026
June 8-10, 2026 | Canton, OH, USA
Sponsor: ACerS

Global Steel Dynamics Forum
June 16-17, 2026 | New York, NY, USA
Sponsor: AIST

TMS Specialty Congress 2026
July 6-10, 2026 | Anaheim, CA, USA
Sponsor: TMS

The Advanced Materials Show & The Advanced Ceramics Show (UK)
July 8-9, 2026, NEC, Birmingham, UK
Organized by: Event Partners Ltd

American Conference on Neutron Scattering 2026 (ACNS 2026)
July 12-16, 2026 | Detroit, MI, USA
Sponsor: ACerS

The 12th Pacific Rim International Conference on Advanced Materials & Processing (PRICM12)
August 9-13, 2026 | Gold Coast, Australia
Sponsor: TMS

AIST Women in Steel Conference
September 21-23, 2026 | Cleveland, OH, USA
Sponsor: AIST

The 11th International Symposium on Superalloy 718 and Derivatives 2026 (Superalloy 718 & Derivatives 2026) co-located at MS&T26
October 4-7, 2026 | Pittsburgh, PA, USA
Sponsor: TMS

Materials Science & Technology 2026 (MS&T26)
October 4-7, 2026 | Pittsburgh, PA, USA
Sponsors: ACerS, AIST, and TMS

ABOUT THE ORGANIZERS

Organized by the leading materials societies:

The American Ceramic Society is the premier global membership organization for the technical ceramics and glass community. Celebrate with us Monday evening at the ACerS 127th Annual Honors and Awards Banquet for the induction of the 2025 Class of Fellows and awards presentations. The Society's prestigious award lectures will be presented at MS&T25: **Frontiers of Science and Society - Rustum Roy Lecture, Edward Orton Jr. Memorial Lecture and Robert B. Sosman Lecture.** All attendees are welcome to attend the ACerS lectures. Be sure to stop by the society lounge to relax between the sessions, network with peers, hear what's new with the Society and much more.

Visit www.ceramics.org to learn more about ACerS.

The Association for Iron & Steel Technology (AIST) is a non-profit entity with over 17,500 members from more than 70 countries. AIST is recognized as a global leader in networking, education and sustainability programs for advancing iron and steel technology. Serving the entire iron and steel community, including steel manufacturers, suppliers, consumers and academics, our mission is to advance the technical development, production, processing and application of iron and steel.

Visit www.aist.org to learn more about AIST.

The Minerals, Metals & Materials Society (TMS) is a member-driven international professional society dedicated to fostering the exchange of learning and ideas across the entire range of minerals, metals, and materials science and engineering, from minerals processing and primary metals production, to basic research and the advanced applications of materials. Included among its more than 12,000 professional and student members are metallurgical and materials engineers, scientists, researchers, educators, and administrators from more than 80 countries on six continents.

Visit www.tms.org to learn more about TMS.

Event Partners works with associations, companies, and organizations on event delivery, from 360° managed services through to partnering with individual companies on assisting with their event participation. Our focus is always on providing maximum value to our audiences and participants ensuring each of our events represent the very best of each industry we operate in. In 2022, Materials Science and Technology (MS&T) began a partnership with the commercial exhibition firm Event Partners, to co-locate The Advanced Materials Show Exhibition at MS&T.

Program At A Glance

Topic Area/Symposium	Date	Time	Room
Program Highlights			
AIST Plenary Session	MON	AM	Short North Ballroom B
TMS Plenary Session	MON	PM	Short North Ballroom B
ACerS Plenary Session	TUE	AM	Short North Ballroom B
MS&T25 Poster Session	TUE	PM	Exhibit Hall C/D
ACerS The Navrotsky Award for Experimental Thermodynamics of Solids	MON	AM	B142/143
ACerS Bioceramics Awardees	MON	AM	C171
ACerS Richard M. Fulrath Award Session	MON	PM	B131
ACerS GOMD Alfred R. Cooper Award Session	TUE	AM	B132
TMS Frontiers of Materials Award Lecture	TUE	AM	C162A
ACerS Frontiers of Science and Society - Rustum Roy Lecture	TUE	PM	B131
ACerS Basic Science Robert B. Sosman Award Lecture	WED	PM	B131
Additive Manufacturing			
Additive Manufacturing Modeling, Simulation, and Machine Learning: Microstructure, Mechanics, and Process			
AM Modeling - Mechanical Properties	TUE	AM	C150
AM Modeling - Artificial Intelligence and Machine Learning (AI/ML)	TUE	PM	C150
Poster Session	TUE	PM	Exhibit Hall C/D
AM Modeling - Microstructures and Thermal Analyses I	WED	AM	C150
AM Modeling - Microstructures and Thermal Analyses II	WED	PM	C150
Additive Manufacturing of Ceramic-Based Materials: Process Development, Materials, Process Optimization and Applications			
Ceramic Vat Photopolymerization Processes	TUE	PM	C161A
Poster Session	TUE	PM	Exhibit Hall C/D
Ceramic Direct Ink Writing Processes	WED	AM	C161A
Ceramic Powder Bed Processes	WED	PM	C161A
Additive Manufacturing of Polymeric-Based Materials: Potentials and Challenges			
Revolutionizing Applications and Unleashing the Potential of Polymer-Based Additive Manufacturing	MON	AM	C160A
Exploring the Additive Manufacturing Frontier of Polymeric Composites	MON	PM	C160A
Additive Manufacturing of Thick Films Using Dry Aerosol Processes: Process Development, Materials, Process Optimization and Applications			
Solid Particle Aerosol Deposition	MON	PM	C150

Topic Area/Symposium	Date	Time	Room
Additive Manufacturing, Directed Energy Deposition of Metals: Processing – Microstructure – Mechanical Property Relationships			
Stainless Steels	MON	AM	C160B
Nickel Alloys	MON	PM	C160B
Monitoring, Modeling, and Functionally Grading / Arc Based DED and Copper Alloys	TUE	AM	C160B
Steels / Titanium and High Entropy Alloys	TUE	PM	C160B
Poster Session	TUE	PM	Exhibit Hall C/D
Additive Manufacturing: Design, Materials, Manufacturing, Challenges and Applications			
Additive Manufacturing: Design, Materials, Manufacturing, Challenges and Applications - Session I	MON	PM	C151
Additive Manufacturing: Design, Materials, Manufacturing, Challenges and Applications - Session II	TUE	AM	C151
Additive Manufacturing: Design, Materials, Manufacturing, Challenges and Applications - Session III	TUE	PM	C151
Poster Session	TUE	PM	Exhibit Hall C/D
Additive Manufacturing: Design, Materials, Manufacturing, Challenges and Applications - Session IV	WED	AM	C151
Additive Manufacturing: Design, Materials, Manufacturing, Challenges and Applications - Session V	WED	PM	C151
Additive Manufacturing: Development of Powders			
Foundations and Advances in Atomization Refractory Powder Production	TUE	AM	C160A
Bridging Lab Scale Innovation and Industrial Powder Needs	TUE	PM	C160A
Powder Engineering, Functionalization & Simulation for AM	WED	AM	C160B
Additive Manufacturing: Enhancement and Synergy with Traditional Methods			
Additive Manufacturing: Enhancement and Synergy with Traditional Methods I	MON	AM	C150
Additive Manufacturing: Equipment, Instrumentation and In-Situ Process Monitoring			
In-Situ Monitoring Methods and Instrumentation	WED	AM	C160A
Multi-Modal Monitoring, Data Integration, and Post-Process Analysis	WED	PM	C160A
Artificial Intelligence			
Autonomous Platforms for Designing and Understanding Materials			
Autonomous Platforms for Designing and Understanding Materials	TUE	AM	D282
Enhancing the Accessibility of Machine Learning-Enabled Experiments			
Advancing Materials Research with Foundational Models	MON	AM	D283
Integrating AI, Automation, and Workflow for Intelligent Research Pipelines	MON	PM	D180
Integrated Computational Materials Engineering for Physics-Based Machine Learning Models			
Integrated Computational Materials Engineering for Physics-Based Machine Learning Models	TUE	AM	D283
Poster Session	TUE	PM	Exhibit Hall C/D

Program At A Glance

Topic Area/Symposium	Date	Time	Room
Materials Informatics for Images and Multi-Dimensional Datasets			
Materials Informatics for Images and Multi-Dimensional Datasets I	MON	AM	D282
Materials Informatics for Images and Multi-Dimensional Datasets II	TUE	AM	B233
Materials Processing and Fundamental Understanding Based on Machine Learning and Data Informatics			
Poster Session	TUE	PM	Exhibit Hall C/D
Materials Processing and Fundamental Understanding Based on Machine Learning and Data Informatics I	WED	AM	D283
Materials Processing and Fundamental Understanding Based on Machine Learning and Data Informatics II	WED	PM	D283
Biomaterials			
3D Printing of Biomaterials and Devices			
3D Printing of Biomaterials and Devices	MON	AM	C172
Poster Session	TUE	PM	Exhibit Hall C/D
Next Generation Biomaterials			
Next Generation Biomaterials - ACerS Bioceramics Division Award Session	MON	PM	GCCC C171
Next Generation Biomaterials I	MON	AM	C171
Next Generation Biomaterials II	MON	PM	C171
Next Generation Biomaterials III	TUE	AM	C171
Next Generation Biomaterials IV	TUE	PM	C171
Poster Session	TUE	PM	Exhibit Hall C/D
Next Generation Biomaterials V	WED	AM	C171
Next Generation Biomaterials VI	WED	PM	C171
Next Generation Biomaterials VII	WED	PM	C170
Ceramic and Glass Materials			
2D Materials: Synthesis, Properties, and Applications			
Poster Session	TUE	PM	Exhibit Hall C/D
2D Materials: Synthesis, Properties, and Applications	WED	AM	B130
Advances in Dielectric Materials and Electronic Devices			
Ferroelectrics	MON	PM	B142/143
Dielectrics for Catalysis, Energy Harvesting, and Other Applications	TUE	AM	B142/143
Additive Manufacturing and Perovskite Photovoltaics	TUE	PM	B142/143
Poster Session	TUE	PM	Exhibit Hall C/D
American Ceramic Society Journal Awards Symposium			
American Ceramic Society Journals Awards Symposium	TUE	PM	B130
Engineering Ceramics: Microstructure-Property-Performance Relations and Applications			
Poster Session	TUE	PM	Exhibit Hall C/D
Advanced Processing Technology / Corrosion Behavior of Ceramics / Modeling and Simulation	WED	AM	B240/241
Composites / Properties of Engineering Ceramics	WED	PM	B240/241

Topic Area/Symposium	Date	Time	Room
Glasses and Optical Materials: Challenges, Advances, and Applications			
Glass Formation and Manufacturing	MON	AM	B132
Non-Oxide Glasses, Optics, and Glassy Electrolytes	MON	PM	B132
GOMD Alfred R. Cooper Award Session	TUE	AM	B132
Structure and Properties of Oxide Glasses	TUE	PM	B132
Poster Session	TUE	PM	Exhibit Hall C/D
Manufacturing and Processing of Advanced Ceramic Materials			
New Frontiers in Advanced Manufacturing of Ceramic Materials	MON	PM	B240/241
Advances in Ceramic Processing I: Sintering	TUE	AM	B240/241
Poster Session	TUE	PM	Exhibit Hall C/D
Advances in Ceramic Processing II: Applications	WED	AM	B142/143
Phase Transformations in Ceramics: Science and Applications			
Phase Transformations in Ceramics I	WED	AM	B132
Phase Transformations in Ceramics II	WED	PM	B132
Solid-State Optical Materials and Luminescence Properties			
Solid-State Optical Materials and Luminescence Properties	MON	AM	B230
Poster Session	TUE	PM	Exhibit Hall C/D
Fundamentals and Characterization			
Applications of Uncertainty Quantification (UQ) in Science and Engineering			
UQ Applications in Materials and Engineering - Bayesian Calibration, Sparse Grid Surrogates, Meso-Scaling, Meta Analysis, Deep Kernel Learning	MON	PM	C162B
Emergent Materials Under Extremes and Decisive In Situ Characterizations			
In Situ Technologies Combined with Extreme Conditions	MON	AM	C162A
Advanced Characterization of Fuel and Ceramic Materials Under Extreme Conditions	MON	PM	C162A
Grain Boundaries, Interfaces, and Surfaces: Fundamental Structure-Property-Performance Relationships			
Sintering & Grain Growth and Modeling	MON	AM	C161A
Surfaces and Heterointerfaces	MON	PM	C161A
Electronic and Mechanical Properties	TUE	AM	C161A
High-Entropy Materials: Solid Solutions, Intermetallics, Ceramics, Functional Materials and Beyond VI			
Physics-Based Models	MON	AM	C170
Experiments: Non-Alloys	MON	PM	C170
Data-Driven, Data Analysis, and Design	TUE	AM	C170
Experiments: Alloy I	TUE	PM	C170
Poster Session	TUE	PM	Exhibit Hall C/D
Experiments: Alloy II	WED	AM	C170

Program At A Glance

Topic Area/Symposium	Date	Time	Room
Microstructural Control in Materials Processing: Role of Phase Transformation Pathways			
Poster Session	TUE	PM	Exhibit Hall C/D
Microstructural Control in Materials Processing: Role of Phase Transformation Pathways I	WED	AM	C162B
Microstructural Control in Materials Processing: Role of Phase Transformation Pathways II	WED	PM	C162B
Iron and Steel (Ferrous Alloys)			
Advances and Challenges in Decarbonization of the Steel Industry			
Advances and Challenges in Decarbonization of the Steel Industry	TUE	PM	D282
Advances in Ferrous Process Metallurgy			
Simulations & Modeling	MON	AM	D281
Processing & Characterization	MON	PM	D281
Poster Session	TUE	PM	Exhibit Hall C/D
Advances in Metallic Coated Advanced Steels			
Advances in Metallic Coated Advanced Steels	MON	PM	D283
Advances in Understanding of Martensite in Steels III			
Poster Session	TUE	PM	Exhibit Hall C/D
Martensite in Steels III	WED	AM	D281
Developments in Plate and Line Pipe Steels			
Developments in Plate and Line Pipe Steels	TUE	PM	D281
New Frontiers in Physical Metallurgy of Steels			
New Frontiers in Physical Metallurgy of Steels I	TUE	AM	D281
Poster Session	TUE	PM	Exhibit Hall C/D
Steels for Sustainable Development IV			
Development of Steels with Enhanced Mechanical Properties for Sustainable Applications	TUE	AM	D181
Student Poster Session	TUE	PM	Exhibit Hall C/D
Steel Development Supporting Sustainable Manufacturing and Energy Infrastructure	WED	AM	D282
Steel Development Supporting Circular Economics and Recyclability	WED	PM	D282
Lightweight Alloys			
Advances in Titanium Technology			
Characterization of Phase Transformation Pathways	TUE	AM	C172
Alloy Design & Material Discovery	TUE	PM	C172
Poster Session	TUE	PM	Exhibit Hall C/D
Deformation Mechanisms and Mechanical Properties I	WED	AM	C172
Deformation Mechanisms and Mechanical Properties II	WED	PM	C172

Topic Area/Symposium	Date	Time	Room
Materials-Environment Interactions			
Advanced Coatings for Wear and Corrosion Protection			
Advanced Coatings for Wear and Corrosion Protection	MON	PM	D181
Poster Session	TUE	PM	Exhibit Hall C/D
Advanced Materials for Harsh Environments			
Poster Session	TUE	PM	Exhibit Hall C/D
Advanced Materials for Harsh Environments - Session I	WED	AM	D180
Advancement of Measurement Technologies for Harsh Environments			
Advancement of Measurement Technologies for Harsh Environments	MON	AM	D180
Poster Session	TUE	PM	Exhibit Hall C/D
Corrosion of Advanced Materials: Theory and Practice			
Corrosion of Advanced Materials: Theory and Practice I	TUE	AM	D180
Corrosion of Advanced Materials: Theory and Practice II	TUE	PM	D180
Corrosion, Protection and Damage Monitoring of Advanced Materials in Natural and Specific Environments			
Deepened Understandings of Corrosion And Protection Mechanisms with a Focus on Novel Materials, the Change of Corrosive Media and Coating	MON	PM	D182
Development and Applications of Advanced Instrumentation, Characterization Techniques and Methods for Degradation Study	TUE	AM	D182
Poster Session	TUE	PM	Exhibit Hall C/D
High-Temperature Corrosion and Degradation of Materials			
High-Temperature Corrosion and Degradation of Materials	MON	AM	D182
Poster Session	TUE	PM	Exhibit Hall C/D
Materials Under Extreme Environment			
Poster Session	TUE	PM	Exhibit Hall C/D
Materials Under Extreme Environment I	WED	AM	D181
Materials Under Extreme Environment II	WED	PM	D181
Thermodynamics of Materials in Extreme Environments			
Thermodynamics of Materials in Extreme Environments	MON	AM	D181
Poster Session	TUE	PM	Exhibit Hall C/D
Understanding and Mitigating High Temperature Corrosion Processes Through Synergistic Integration of Experimental, Computational and Manufacturing Techniques			
High Temperature Corrosion Challenges and Corrosion Resistant Coatings: An Industrial Perspective	TUE	PM	D181
Multiscale Modeling of Corrosion Induced Degradation of High Temperature Alloys	WED	AM	B242/243

Program At A Glance

Topic Area/Symposium	Date	Time	Room
Understanding Corrosion-Related Cracking			
Corrosion at Elevated Temperatures and Cracking	TUE	PM	D182
Poster Session	TUE	PM	Exhibit Hall C/D
Complex Corrosion Conditions and Cracking, Corrosion Fatigue and Beyond	WED	AM	D182
Modeling			
Advances in Multiphysics Modeling and Multi-Modal Imaging of Functional Materials			
Operator Learning / Phase-Field Modeling	MON	AM	B244/245
Poster Session	TUE	PM	Exhibit Hall C/D
Nanomaterials			
Controlled Synthesis, Processing, and Applications of Structural and Functional Nanomaterials			
2D Nanomaterials	MON	PM	B230
1D Nanostructures	TUE	AM	B230
Nanocomposites & Hybrid Materials	TUE	PM	B230
Poster Session	TUE	PM	Exhibit Hall C/D
Growth and Property Control of Nanomaterials I	WED	AM	B230
Growth and Property Control of Nanomaterials II	WED	PM	B230
Nanotechnology for Energy, Environment, Electronics, Healthcare and Industry			
Nanotechnology for Energy, Environment, Electronics, Healthcare and Industry - Session I	MON	AM	B240/241
Poster Session	TUE	PM	Exhibit Hall C/D
Nuclear Energy			
Advanced Characterization of Materials for Nuclear, Radiation, and Extreme Environments VI			
Advanced Characterization Session I	MON	AM	D280
Advanced Characterization Session II	MON	PM	D280
Poster Session	TUE	PM	Exhibit Hall C/D
Ceramic Materials for Nuclear Energy Systems			
Materials and Processes for Nuclear Energy Systems	MON	PM	D282
Metallic Nuclear Fuel Design, Fabrication and Characterization			
Metallic Nuclear Fuel Design, Fabrication and Characterization I	TUE	AM	D280
Metallic Nuclear Fuel Design, Fabrication and Characterization II	TUE	PM	D280
Poster Session	TUE	PM	Exhibit Hall C/D
Progressive Solutions to Improve Corrosion Resistance of Nuclear Waste Storage Materials			
Iron Phosphate Glasses and Advanced Characterization Techniques for Nuclear Waste Forms	TUE	PM	D283
Poster Session	TUE	PM	Exhibit Hall C/D
Improving Processing of Nuclear Waste Glass, Mechanical Mechanisms of Crack Propagation and Measurement of Residual Stresses in Stainless Steel	WED	AM	D280

Topic Area/Symposium	Date	Time	Room
Processing and Manufacturing			
Advances in Refractory High Entropy Alloys and Ceramics			
High-Temperature Mechanical Properties	MON	PM	B232
Structures and Mechanical Properties	TUE	AM	B232
High Entropy Ceramics	TUE	PM	B232
Alloy Processing and Mechanical Behavior	WED	AM	B232
Alloy Design and Modeling	WED	PM	B232
Alloy Phase Transformations at Elevated Temperatures			
Ni-Based Superalloys	MON	AM	B232
Poster Session	TUE	PM	Exhibit Hall C/D
Lightweight Composites, Materials & Alloys			
Microstructure and Processing	TUE	AM	B231
Microstructure and Properties	TUE	PM	B231
Poster Session	TUE	PM	Exhibit Hall C/D
Microstructure, Processing and Properties	WED	AM	B231
Processing and Mechanical Behavior	WED	PM	B231
Processing and Performance of Materials Using Microwaves, Electric and Magnetic Fields, Ultrasound, Lasers, and Mechanical Work – Rustum Roy Symposium			
Rustum Roy Symposium - Session I	MON	AM	B233
Rustum Roy Symposium - Session Ii	MON	PM	B233
Poster Session	TUE	PM	Exhibit Hall C/D
Sintering and Related Powder Processing Science and Technologies			
Flash and Ultra-Rapid Sintering: Mechanisms, Control, and Applications	TUE	PM	B233
Poster Session	TUE	PM	Exhibit Hall C/D
Field-Assisted Sintering and SPS: Mechanisms, Materials, and Applications	WED	AM	B233
Sintering Control: Linking Formulation, Simulation, and Material Properties	WED	PM	B233
Sustainability, Energy, and the Environment			
17th Symposium on Green and Sustainable Technologies for Materials Manufacturing and Processing			
Green and Sustainable Technologies for Manufacturing Materials I	MON	AM	B242/243
Green and Sustainable Technologies for Manufacturing Materials II	MON	PM	B242/243
Green and Sustainable Technologies for Manufacturing Materials III	TUE	PM	B240/241
Poster Session	TUE	PM	Exhibit Hall C/D
Advancements in Molten Salt/Metal Technology in Energy Applications: From Atoms to Plants			
Molten Salt Fundamentals, Properties, and Simulation	TUE	AM	B242/243
Molten Salt Corrosion, Electrochemistry, Synthesis, and Separations	TUE	PM	B242/243

Program At A Glance

Topic Area/Symposium	Date	Time	Room
Advances in Materials and Systems for a Hydrogen Economy			
Hydrogen Fuel in Aerospace Sectors, and Progress in Hydrogen Production by Electrochemical Method - Technical Advances and Obstacles	MON	AM	B246
Complex Interactions of Materials, Components, and Systems for Hydrogen Production, Separation, Storage, Transport, and Utilization	MON	PM	B246
Hydrogen Fuel for Industrial Decarbonization and Advances in Energy Technologies - Material Issues	TUE	AM	B246
Poster Session	TUE	PM	Exhibit Hall C/D
Energy Materials for Sustainable Development			
Battery and Storage I	MON	AM	B234
Thermoelectrics I	MON	AM	B235
Battery and Storage II	MON	PM	B234
Thermoelectrics II	MON	PM	B235
Battery and Storage III	TUE	AM	B234
Thermoelectrics III	TUE	AM	B235
Battery and Storage IV	TUE	PM	B234
Thermoelectrics IV	TUE	PM	B235
Poster Session	TUE	PM	Exhibit Hall C/D
Battery and Storage V / Photovoltaics and Photocatalysis	WED	AM	B234
Thermoelectrics V/ Energy Harvesting, System and Application	WED	AM	B235
Energy Harvesting, System and Application	WED	PM	B234
Hybrid Organic-Inorganic Materials for Alternative Energy			
Hybrid Organic-Inorganic Materials for AlternativeEnergy I	TUE	PM	B246
Poster Session	TUE	PM	Exhibit Hall C/D
2 D Materials and Computational Design of Hybrid Organic-Inorganic Materials for AlternativeEnergy	WED	AM	B246
Hybrid Organic-Inorganic Materials for AlternativeEnergy II	WED	PM	B246
Materials for CO2 Sequestration			
Materials for CO2 Sequestration	TUE	AM	B244/245
Phasing Out Carbon: Phase Transformation Challenges in Decarbonization Technologies			
Phasing Out Carbon: Phase Transformation Challenges in Decarbonization Technologies	MON	PM	B244/245
Poster Session	TUE	PM	Exhibit Hall C/D

Topic Area/Symposium	Date	Time	Room
Porous Materials for Energy and Environment Applications			
Porous Materials I	TUE	PM	B244/245
Poster Session	TUE	PM	Exhibit Hall C/D
Porous Materials II	WED	AM	B244/245
Special Topics			
2025 Graduate Student Poster Contest			
2025 Graduate Student Poster Contest	TUE	PM	Exhibit Hall C/D
2025 Undergraduate Student Poster Contest			
2025 Undergraduate Student Poster Contest	TUE	PM	Exhibit Hall C/D
ACerS Robert B. Sosman Award Symposium: Solid State Chemistry Meets Solid State Ionics			
ACerS Robert B. Sosman Award Symposium	WED	AM	B131
IGNITE MSE: Bridging Gaps in Innovation and Collaboration			
Poster Session	TUE	PM	Exhibit Hall C/D
Innovative Materials Solutions for a Rapidly Evolving Market			
Innovative Materials Solutions for a Rapidly Evolving Market	TUE	PM	C162B
Materials and Manufacturing in Low Earth Orbit (and Beyond)			
Manufacturing of Organics/Biomaterials in Low Earth Orbit	TUE	AM	C161B
Materials Testing & Modeling for Space Applications	TUE	PM	C161B
Welding in Low Earth Orbit- History and Planned Experiments	WED	AM	C161B
Building Space Infrastructure in Low Earth Orbit and Beyond	WED	PM	C161B
Navigating Career Pivots at the Mid-Career and Beyond			
Navigating Career Pivots at the Mid-Career and Beyond	TUE	AM	C162B
TMS Frontiers of Materials Award Symposium: Harnessing Charged and Chemical Defects for Exceptional Structural and Functional Properties			
TMS Frontiers of Materials Award Symposium I	TUE	AM	C162A
TMS Frontiers of Materials Award Symposium II	TUE	PM	C162A
TMS Frontiers of Materials Award Symposium III	WED	AM	C162A

September 30 - October 1, 2025 • Columbus, OH

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Exhibitor List

THE Advanced Materials SHOW I USA

Co-located with MS&T25 MATERIALS SCIENCE & TECHNOLOGY

Across International LLC	610
AdValue Technology LLC	431
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Goodfellow Corporation	611
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Hauschild SpeedMixer	628
Hirox-USA, Inc.	708
ICDD	422
IDTechEx	514
INMATEC Technologies GmbH	729
JEOL USA	504
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Keyence Corporation of America	617
KRÜSS Americas	711
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Springer Nature	211
Sugino Corp.	621
Ted Pella, Inc.	509
Tescan	608
The Johns Hopkins University Department of Materials Science and Engineering	300
Thermcraft	710
Thermo-Calc Software	500
THINKY USA	529
Top Sieko USA, Inc.	430
Uncountable Inc.	324
Verder Scientific Inc	511
WAB Group	523
Walker Precision Engineering	411
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THE Advanced Materials SHOW I USA

Find out more about the exhibitors and read their bios.

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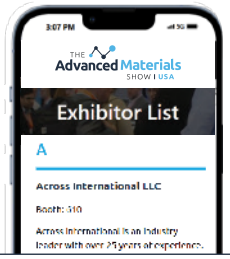

Floorplan

THE Advanced Materials SHOW I USA

Co-located with MS&T25 MATERIALS SCIENCE & TECHNOLOGY

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Product Categories

THE Advanced Materials SHOW I USA

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Additive Manufacturing
Amazemet - **212**
Applied Ceramics, Inc. - **423**
ceramitec - **332**
Color Master, Inc. - **725**
Freemelt - **601**
INMATEC Technologies GmbH - **729**
JEOL USA - **504**
Kennametal, Inc. - **624**
Lithoz America - **528**
Lucideon - **811**
Nabertherm Inc. - **530**
Ningbo Chuangrun New Materials Co., Ltd - **325**
Proto - **809**
Thermo-Calc Software - **500**
THINKY USA - **529**

Analysis Equipment
Across International LLC - **610**
Agilent Technologies - **326**
Applied Thermal Control - **709**
Bruker - **609**
Dragonfly - **322**
ELTRA, a VERDER company - **511**
Fritsch Milling & Sizing, Inc - **520**
Hirox-USA, Inc. - **708**
JEOL USA - **504**
KRÜSS Americas - **711**
KS Analytical Systems - **329**
Lake Shore Cryotronics - **415**
LECO Corporation - **409**
Leica Microsystems - **210**
MaterialsZone - **428**
Microtrac, a VERDER company - **511**
MIPAR Image Analysis - **717**
NETZSCH Instruments North America, LLC - **715**
Princeton Scientific Corporation - **502**
Quantum Design - **421**
RETSCH, a VERDER company - **511**
Rigaku Americas - **716**
Semilab USA LLC - **631**
Tescan - **608**
Uncountable Inc. - **324**
Verder Scientific Inc - **511**

Associations/Media
Advanced Carbons Council - **311**
American Association for Laboratory Accreditation (A2LA) - **323**
ceramitec - **332**
ICDD - **422**
Springer Nature - **211**

Carbon/Graphene/2D Materials
Advanced Carbons Council - **311**
American Carbon Company - **623**
Color Master, Inc. - **725**
Goodfellow Corporation - **611**
Quantum Design - **421**
Springer Nature - **211**
Sugino Corp. - **621**

Ceramics
AdValue Technology LLC - **431**
Alfred University - **401**
Applied Ceramics, Inc. - **423**
ceramitec - **332**
INMATEC Technologies GmbH - **729**
Kennametal, Inc. - **624**
Lithoz America - **528**
Lucideon - **811**
NETZSCH Instruments North America, LLC - **715**
Powder Processing and Technology - **728**
Powdertech International - **622**
SCI Engineered Materials Inc - **524**
Seneca Ceramics Corporation - **723**
Thermcraft - **710**
Zircar Zirconia, Inc. - **510**

Coatings
Kennametal, Inc. - **624**
Nanum Nanotechnology - **313**
Ningbo Chuangrun New Materials Co., Ltd - **325**
Princeton Scientific Corporation - **502**
Zircar Zirconia, Inc. - **510**

Composites
American Carbon Company - **623**
Bullen Ultrasonics, Inc - **222**
Goodfellow Corporation - **611**
Nanum Nanotechnology - **313**
Powdertech International - **622**
Zircar Zirconia, Inc. - **510**

Education
Alfred University - **401**
Center for Advanced Materials Processing - **817**
FAMU-FSU College of Engineering MatSci Dept - **304**
Freemelt - **601**
Nabertherm Inc. - **530**
Sente Software Ltd. - **522**
The Johns Hopkins University Department of Materials Science and Engineering - **300**
X-Sight s.r.o. - **815**

Lab Equipment/Instruments
Across International LLC - **610**
Agilent Technologies - **326**
Amazemet - **212**
Angstrom Scientific Inc. - **425**
Applied Thermal Control - **709**
Applied Test Systems (ATS) - **525**
Carbolite, a VERDER company - **511**
Ebatco - **429**
ELTRA, a VERDER company - **511**
FlackTek™ - **424**
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Genius Lab Gear - **630**
GeoCorp, Inc. - **505**
Hauschild SpeedMixer - **628**
Hirox-USA, Inc. - **708**
Keyence Corporation of America - **617**
KRÜSS Americas - **711**
KS Analytical Systems - **329**
Lake Shore Cryotronics - **415**
LECO Corporation - **409**
Leica Microsystems - **210**
Linseis - **625**
Microtrac, a VERDER company - **511**
Nabertherm Inc. - **530**
Oxy-Gon Industries, Inc. - **629**
Plasmaterials, Inc. - **714**
Princeton Scientific Corporation - **502**
Proto - **809**
Psylotech Inc. - **209**
QATM, a VERDER company - **511**
Quantum Design - **421**
RETSCH, a VERDER company - **511**
Rigaku Americas - **716**
Semilab USA LLC - **631**
Ted Pella, Inc. - **509**
Tescan - **608**
THINKY USA - **529**
Verder Scientific Inc - **511**
WAB Group - **523**
X-Sight s.r.o. - **815**

Manufacturing/Processing Equipment
American Association for Laboratory Accreditation (A2LA) - **323**
American Isostatic Presses, Inc. - **616**
Applied Thermal Control - **709**
FlackTek™ - **424**
Freemelt - **601**
Fritsch Milling & Sizing, Inc - **520**
Genius Lab Gear - **630**
Keyence Corporation of America - **617**

Manufacturing/Processing Equipment
Linseis - **625**
Lithoz America - **528**
Oxy-Gon Industries, Inc. - **629**
Plasmaterials, Inc. - **714**
Powder Processing and Technology - **728**
Sugino Corp. - **621**
THINKY USA - **529**
Top Sieko USA, Inc. - **430**
WAB Group - **523**
Walker Precision Engineering - **411**

Nanomaterials
AdValue Technology LLC - **431**
Advanced Carbons Council - **311**
American Carbon Company - **623**
Bhawin LLC - **224**
California Nanotechnologies Inc., - **405**
FAMU-FSU College of Engineering MatSci Dept - **304**
JEOL USA - **504**
Nanum Nanotechnology - **313**
Plasmaterials, Inc. - **714**
Powdertech International - **622**
The Johns Hopkins University Department of Materials Science and Engineering - **300**
Springer Nature - **211**
Sugino Corp. - **621**

Polymers
Color Master, Inc. - **725**
Goodfellow Corporation - **611**

R&D Services
Bhawin LLC - **224**
Bullen Ultrasonics, Inc - **222**
CompuTherm LLC - **531**
Ebatco - **429**
FAMU-FSU College of Engineering MatSci Dept - **304**
FlackTek™ - **424**
Goodfellow Corporation - **611**
Hauschild SpeedMixer - **628**
Laser Thermal Analysis - **320**
Leica Microsystems - **210**
Lucideon - **811**
MaterialsZone - **428**
MIPAR Image Analysis - **717**
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Seneca Ceramics Corporation - **723**
Sente Software Ltd. - **522**
The Johns Hopkins University Department of Materials Science and Engineering - **300**
Thermcraft - **710**
Thermo-Calc Software - **500**

Testing Equipment
Agilent Technologies - **326**
Applied Test Systems (ATS) - **525**
Bruker - **609**
Carbolite, a VERDER company - **511**
Dragonfly - **322**
ELTRA, a VERDER company - **511**
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GeoCorp, Inc. - **505**
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Psylotech Inc. - **209**
QATM, a VERDER company - **511**
RETSCH, a VERDER company - **511**
Semilab USA LLC - **631**
Tescan - **608**
Thermcraft - **710**
Verder Scientific Inc - **511**
X-Sight s.r.o. - **815**

Testing Services
Alfred University - **401**
American Association for Laboratory Accreditation (A2LA) - **323**
American Isostatic Presses, Inc. - **616**
Applied Test Systems (ATS) - **525**
Bhawin LLC - **224**
Center for Advanced Materials Processing - **817**
Dragonfly - **322**
Ebatco - **429**
Laser Thermal Analysis - **320**
Linseis - **625**
Proto - **809**
Psylotech Inc. - **209**
Rigaku Americas - **716**

Other Product Categories
Advanced Ceramics Machining: Bullen Ultrasonics, Inc - **222**

Alloy Design: CompuTherm LLC - **531**

CIM - Ceramic Injection Moulding: INMATEC Technologies GmbH - **729**

Computer Software, Modeling and Simulation: Thermo-Calc Software - **500**

Crucibles: SCM - **226**

Other Product Categories
Fused Quartz, Sapphire, High Purity Powders, Refractory Metals: AdValue Technology LLC - **431**

Heat Treatment: Carbolite, a VERDER company - **511**

Hi Temperature Kiln Furniture: Applied Ceramics, Inc. - **423**

High Purity Metals: Ningbo Chuangrun New Materials Co., Ltd - **325**

Laboratory Information Systems: Hauschild SpeedMixer - **628**

Market Intelligence & Consultancy Services: IDTechEx - **514**

Materials for Thin Films and PVD: SCM - **226**

Materials Modeling Software (for Multi-component Alloys): Sente Software Ltd. - **522**

Metallographic Equipment & Consumables: Pace Technologies - **615**

Metallography & Materialography Equipment: QATM, a VERDER company - **511**

Other Product Categories
Metallography & Materialography Equipment: QATM, a VERDER company - **511**

Microstructural Analysis: Pace Technologies - **615**

Physical Vapor Deposition Materials: Plasmaterials, Inc. - **714**

Sample Preparation: Pace Technologies - **615**

Sintering: Dr. Fritsch FAST/SPS Sintering - **405**

Sinter Presses: Dr. Fritsch FAST/SPS Sintering - **405**

Spark Plasma Sintering: Dr. Fritsch FAST/SPS Sintering - **405**

Software: CompuTherm LLC - **531**

Specializing in Custom Designed Oxide Materials: Seneca Ceramics Corporation - **723**

Sputtering Targets: SCM - **226**

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Tolling Services: Powder Processing and Technology - **728**

Show Information

THE Advanced Materials SHOW I USA

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Tuesday September 30	
Exhibition	9:00am - 4:30pm
Poster Viewing	2:00am - 5:00pm
Advanced Materials Show Sessions	10:00am - 4:20pm
Mug Drop Contest	10:30am - 12:00pm
Poster Contest Judging	10:00am - 12:00pm
Disc Golf Contest	12:00 - 1:00pm
Networking Reception	4:30 - 6:00pm
Wednesday October 1	
Exhibition	9:00am - 3:00pm
Poster Viewing	9:00am - 3:00pm
Advanced Carbons Council Sessions	10:00am - 2:55pm

Complimentary Wi-Fi

There is complimentary wi-fi access available in all the public spaces such as lobbies, concourses and pre-function areas, this does not include the exhibition hall.

Catering

Concessions will be open in Halls C&D on show open days. Please note the Greater Columbus Convention Center is a cashless venue.

Restrooms

Restrooms are located on the left-hand side of the exhibition hall, and in the foyer, outside of Halls C&D.

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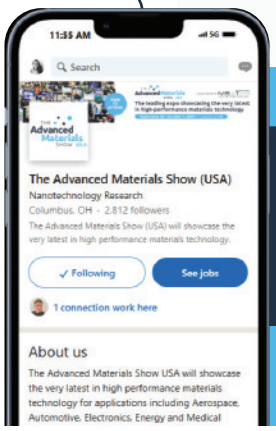

Contact Us

Natasha Burke-Krause
Exhibition Manager
natasha.burke-krause@event-partners.com
+44 (0)1273 957 118

Visit Us at Booth 705

ADVANCED CARBONS COUNCIL

Networking Reception

Tuesday September 30 • 4:30 - 6:00pm

Halls C & D • Networking Lounge #519

Join us for our drinks reception and network with like-minded attendees.

The Advanced Carbons Council (ACC) is a global trade association that supports the production, adoption and use of engineered advanced carbons.
Our mission is to connect and facilitate the cross sector fertilization of ideas, applications and business for all advanced materials producers and users.

Hosted by: MISSISSIPPI POLYMER INSTITUTE | ADVANCED CARBONS COUNCIL

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Sessions Agenda

THE Advanced Materials SHOW I USA

Co-located with MS&T25 MATERIALS SCIENCE & TECHNOLOGY

Immerse yourself in a series of enlightening and thought-provoking presentations from The Advanced Materials Show exhibitors and delve into the sector's most cutting-edge innovations.

The Advanced Materials Show Sessions • Day 1 • Tuesday September 30

Morning Sessions

10:00 - 10:15am

Why Most of Your Scientists Hate Their Lab Coats (and What We Can Do About It)
Derek Miller, Founder, **Genius Lab Gear**

10:20 - 10:35am

Overcoming Scale-Up Challenges: How to Win and Unlock Radical Performance
Jamie Scaglione, Market Development Manager, **Lucideon**

10:40 - 10:55am

Agile Materials Processing: Seamlessly Scale from Grams to Tons
Robert Umland, Global Director - Sales and Marketing, **FlackTek**

11:10 - 11:25am

Combining Micro-mechanical Testing with Latest EBSD, microCT, and optical DIC & DVC Techniques.
Matthew Struve, Business Development Manager, **Psylotech Inc.**

11:30 - 11:45am

X-Sight: User-friendly Solution for Advanced and Complex Material and Engineering Testing
Alexandr Zakl, Sales Engineer, **X-Sight**

11:50am - 12:05pm

Challenges Developing and Evaluating Materials in Controlled Atmospheres, e.g., O_2/N_2/inert-gas and Vacuum, up to 2000°C.
Joe Pinsonneault, Engineer, **Oxy-Gon Industries, Inc.**

LUNCH BREAK

Afternoon Sessions

13:45 - 14:00pm

Machining Methods – Ceramics and Other Hard, Brittle Materials
Eric Norton, Research and Early Innovation Manager, **Bullen Ultrasonics, Inc**

14:05 - 14:20pm

Design Challenges of a High Temperature Rapid Cycle Furnace Module
Jeff Morse, Technical Sales, **Zircar Zirconia, Inc.**

14:25 - 14:40pm

Addressing Critical Rare Earth Magnet Supply and Demand Challenges with Material Design and Manufacturing Innovations
Dr. Jack Howley, Technology Analyst, **IDTechEx**

14:45 - 15:00pm

Material Science of Nb_3Sn, an Enabler for Advanced Technology for Next-Generation Particle Accelerators
Shreyas Balachandran, Associate Professor, Department of Mechanical Engineering, **FAMU- FSU College of Engineering**

15:05 - 15:20pm

Pandat Software Integrating CALPHAD, Microstructure Modeling and FEM for ICME Applications
Dr. Kamalnath Kadirvel, Materials Scientist, **CompuTherm LLC**

15:25 - 15:40pm

AI-Assisted 3D Image Segmentation and Analysis of Porous Media
Dr. Zixiong Cao, Global Technical Sales, **Dragonfly**

15:45 - 16:00pm

Discover Faster, Optimize Smarter, Deliver Better: How AI Is Transforming Advanced Materials R&D
Dr. Assaf Anderson, Founder & CTO, **MaterialsZone**

16:05 - 16:20pm

Accelerating Energy Solutions with High-Entropy Materials: Leveraging Disorder, Computation, and AI
Dr. Corey Oses, Assistant Professor, Department of Materials Science and Engineering, **The John Hopkins University**

To view the latest **Advanced Materials Sessions**, scan this **QR Code**

or visit wwww.advancedmaterialsshowusa.com for the latest agenda updates.

Sessions Agenda

THE Advanced Materials SHOW I USA

Co-located with MS&T25 MATERIALS SCIENCE & TECHNOLOGY

Hear from industry experts on the latest commercial trends for advanced carbons including graphene, carbon fiber, CNT's, synthetic graphene and the use of sustainable/reclaimed carbons.

Advanced Carbons Council Sessions • Day 2 • Wednesday October 1

10:00 - 10:25am

How to Choose the Right Material for Your Application

Terrance Barkan, Executive Director, **Advanced Carbons Council**

ADVANCED CARBONS COUNCIL

10:30 - 10:55am

Where Can Companies Turn to for Hands-on Application Development and Testing?

Monica Tisack, Executive Director, **Mississippi Polymer Institute (MPI)**

MISSISSIPPI POLYMER INSTITUTE

11:00 - 11:25am

The Importance of Characterization and Verification for Advanced Materials

Dr. Cary Hill, Director Nanomaterial and Emerging Containment Safety, **ITA International**

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11:30 - 11:55am

Powering Performance with Graphite Innovation

Liesl Massey, Sr Manager Business Development and Strategic Marketing, **NeoGraf**

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LUNCH BREAK Visit the Advanced Carbons Council on Booth 311 for more information.

13:00 - 13:25pm

Lab Bench to Factory Floor - Closing the Gap Between Research and Application

John Stafford, VP Business Development, **TMTP**

TMTP

13:30 - 13:55pm

Nanum Functional Nanomaterials: Enabling Next-Gen Performance Across Coatings, Lubricants and Composites

Alexandre Caldeira, Commercial Strategy and Innovation Director, **Nanum Technology**
Joyce Cruz, R&D Manager, **Nanum Technology**

NANUM nanotecnologia

14:00 - 14:25pm

Disperson of Carbon Nanotunbes Using an Agitator Bead Mill

Daniel Grskovic, President, **WAB US Corp.**

WAB

14:30 - 14:55pm

Update on Standards for Advanced Carbons Materials

Terrance Barkan, Executive Director, **Advanced Carbons Council**

ADVANCED CARBONS COUNCIL

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See You **Next Year!**

October 6 - 7, 2026 • Pittsburgh, PA

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MS&T ANTI-HARASSMENT POLICIES

The Material Science and Technology Conference (MS&T) is organized by a partnership of three leading materials science-related societies: ACerS, AIST, and TMS.

All three partner societies are committed to ensuring that all MS&T activities are free from discrimination, harassment, and/or retaliation of any form. The MS&T partnership does not tolerate harassment in any form of anyone attending an MS&T event.

Each Society has its Anti-Harassment/Code of Conduct policies posted on its website:

https://ceramics.org/wp-content/uploads/2021/03/Appendix-3-Anti-Harassment-Policy-Rev-Oct-2020.pdf

https://www.aist.org/about-aist/leadership-governance/governance-policies

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What to Do

Anyone who witnesses or is subject to any form of harassment has two options:

1. Immediately notify any MS&T staff members located at the MS&T registration area, information booths, or at one of the Society lounges. These MS&T staff members will immediately contact the MS&T leadership who will respond to you as soon as possible.
2. If you are a member of ACerS, AIST, or TMS, please consult the above-referenced policies to determine to whom and how best to report an incident.

The MS&T partnership respects the organizational sovereignty and decision-making practices employed by each partner. Therefore, each partner, based on employment of its own internal due process, has the right to deny or revoke participation in the MS&T event and/or any of its activities by any individual or business.

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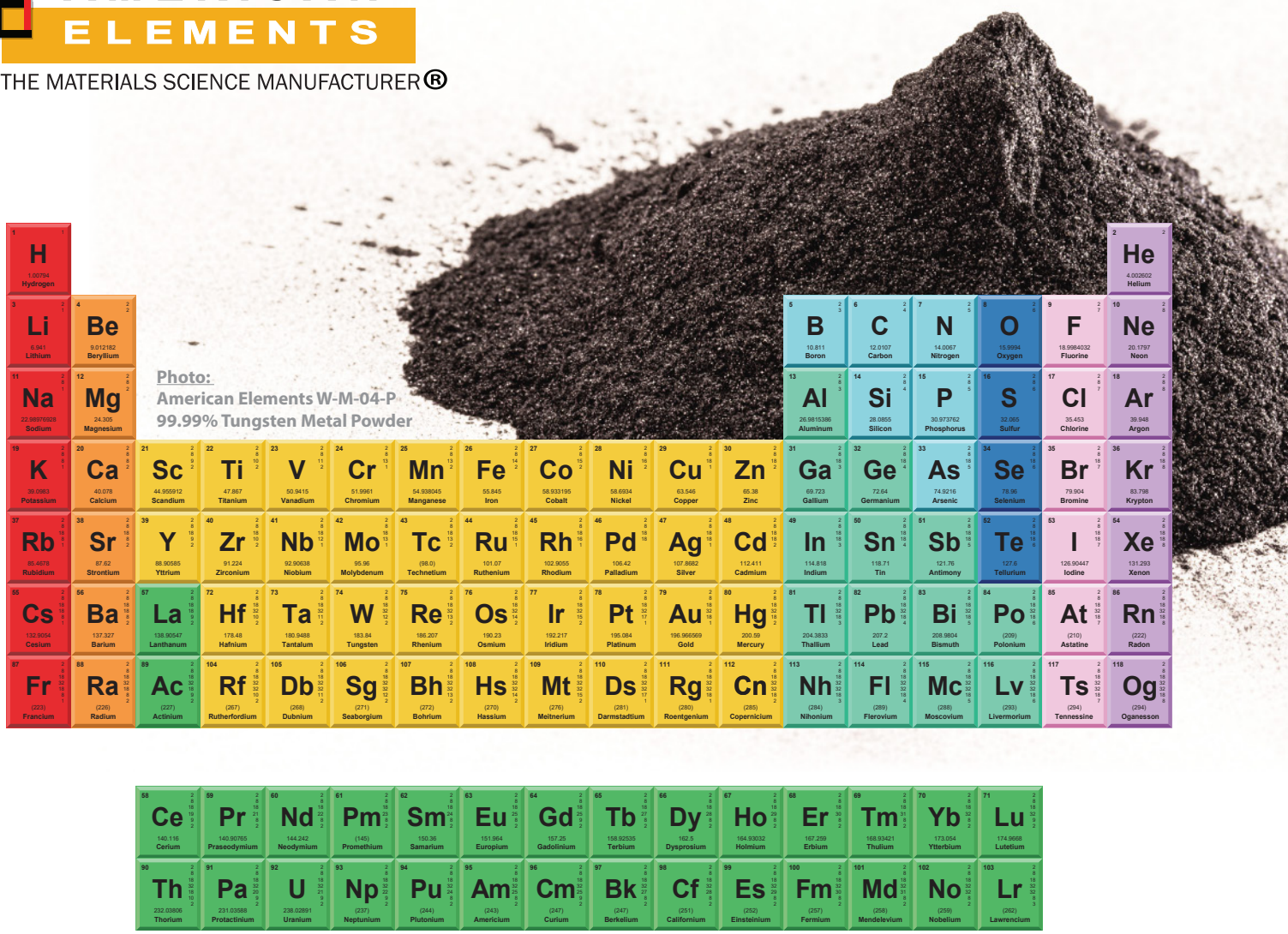

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