



**Cleveland Chapter**

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**REGISTRATION**

Link & QR Code ↓



Please do not register more than once. If you have questions, please e-mail at [ASMClevelandChapter@gmail.com](mailto:ASMClevelandChapter@gmail.com)

**SYMPOSIUM ON “HIGH TEMPERATURE MATERIALS”**

**AGENDA – Jan. 14, 2026**

|                           |   |
|---------------------------|---|
| <b>07:30 – 08:00</b>      | Sign-in / Registration  |
| <b>08:10 – 08:20</b>      | <b>Welcome:</b><br>- Robert Carter (ASM Cleveland Chapter Chairman) – Welcoming remarks   |
| <b>08:20 – 10:00</b>      | <b>Workshop:</b><br>- Dr. Hyeji Im - Assistant Professor, Department of Materials Science and Engineering, CWRU<br>o High Temperature Materials (HTM) Essentials  |
| <b>10:00 – 10:30</b>      | <b>Coffee Break – Exhibits &amp; Poster Session</b>   |
| <b>10:30 – 12:00</b>      | <b>SESSION I: Extended Talks and Technical Exchange</b><br>- 10:30AM to 11:00AM – Tim Smith, Materials Research Engineer, NASA Glenn Research Center<br>o The high temperature stability and properties of GRX-810<br>- 11:00AM to 11:30AM – Andrew Gyekenyesi, Director of Research/Chief Scientist, OAI<br>o OAI - Recent Partnerships in Materials Research<br>- 11:30AM to 12:00AM – Christopher A. Thom, Director of R&D, Rhenium Alloys, Inc.<br>o Rhenium uses in high temperature applications through time   |
| <b>12:00 – 13:00</b>      | <b>Lunch (Provided) – Exhibits &amp; Poster Session</b>   |
| <b>13:00 – 14:30</b>      | <b>SESSION II: Technical Exchange</b><br>- 13:00 to 13:20 – Justin Milner, Materials Research Engineer, NASA Glenn Research Center<br>o Refractory alloys and high temperature capabilities<br>- 13:20 to 13:40 – Meysam Haghshenas, Associate Professor, University of Toledo (MIME)<br>o From Ambient to Elevated Temperatures: Mapping Long- and Ultralong-Life Fatigue via Ultrasonic Fatigue Testing<br>- 13:40 to 14:00 – Gary Rozak, Staff Research Engineer, Elmet Technologies<br>o Refractory Metals, High Temperature Applications with Limitations<br>- 14:00 to 14:30 – Student Poster Fireside talks<br>o 4 min each (No Q&A)   |
| <b>14:30–15:00</b>        | <b>Coffee Break – Exhibits</b>  |
| <b>15:00–15:15</b>        | <b>Poster Awards – Invite students to podium</b>  |
| <b>15:15 – 16:50</b>      | <b>SESSION III: Technical Exchange</b><br>- 15:15 to 15:35 – Michael J. Presby, Materials Research Engineer, NASA Glenn Research Center<br>o It Ain't Paint: Exploring the Complexity of Environmental Effects on Coating Durability<br>- 15:35 to 15:55 – Andreas Bezold - Center for Electron Microscopy and Analysis, The Ohio State U.<br>o Local Phase Transformation Strengthening of Superalloys at Elevated Temperatures<br>- 15:55 to 16:15 – Ryan Paul, Associate Director, R&D, GrafTech Int. Holdings Inc.<br>o Graphite materials and Carbon Composites<br>- 16:15 to 16:35 – Ben Schaeffer, Engineer, Lincoln Electric<br>o Supporting the Adoption of Additive Manufactured Material (produced via Gas Metal Arc Welding) as a Replacement for Large-Scale P91 Components Operating in the Creep Regime<br>- Closing Remarks |
| <b>16:50 – 17:00</b>      | <b>Adjourn</b>  |
| <b>*17:00 to midnight</b> | Dinner on your own – Let the conversations continue....   |

**For further information, please contact us:**

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**POSTER SESSION:**

- 1) (Asare et al.):  
Cleveland State University  
Assessing the Functional and Structural Reliability of Thermal Barrier Coatings for Dynamic Shape Memory Alloy Actuators.
- 2) (Subham Chattoraj et al.):  
Ohio State University  
Unveiling Creep-Induced Microstructural Changes in 3D-Printed ODS Alloys via Advanced SEM-based Characterization.
- 3) (Bryan J. Crossman et al.):  
Ohio State University  
Multi-Modal Characterization of the B2 Phase in the Ta-Re Binary System.
- 4) (Jonathan Clawson et al.)  
University of Akron  
Acoustic Emission Analysis of Damage Behavior in Erosion-Impacted CMCs.
- 5) (Yixiao He et al.)  
Case Western Reserve University  
Laser-Induced Surface Defects for Enhanced Oxidation Resistance in Mo-Si-B Alloys.
- 6) (Vignesh Karunakaran et al.)  
Ohio State University  
Heterogeneous Nucleation of  $\gamma'$  precipitates at Annealing Twin Boundaries in Superalloys: A phase field study.
- 7) (Vidura De Silva Kanakarathne et al.)  
University of Toledo  
Binder Jet Additive Manufacturing and Process Optimization of NiTiHf High-Temperature Shape Memory Alloys.
- 8) (Gabriel Dzukey et al.)  
University of Toledo  
Interfacial Bonding and Strength of Multi-Powder Layers of W and IN 718 Using LBPF.
- 9) (Balo et al.)  
University of Toledo  
Thermal History, Phase Distribution, And Defect Control in LPBF-Fabricated Fe-Mn-Al-Ni Shape Memory Alloys
- 10) (Sara Ranjbareslamloo et al.)  
University of Toledo  
Laser power bed fusion additive manufacturing of FGMs: Compatibility and effect of processing parameters of IN718/SS316
- 11) (D. Diawara et al.)  
University of Toledo  
Development and Mechanical Evaluation of Magnesium Alloy Scaffolds with Dual Coatings for High-Performance Biodegradable Applications
- 12) (S. Houshmand et al.)  
University of Toledo  
Binder Saturation Effects in the First Systematic Binder Jet Processing of NiTiHf High-Temperature Alloys

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