

Poster Presentations

1. **Multiscale porous high-temperature heat exchanger using ceramic co-extrusion**
Xiangyu Li, MIT, USA
2. **Strategies for printing fibers and post-processing for ceramic matrix composites (CMCs)**
Corson Cramer, Oak Ridge National Laboratory, USA
3. **Mechanical properties of reaction bonded Si₃N₄ fabricated by binder jet am, silicon melt infiltration, and nitriding**
Trevor Aguirre, Oak Ridge National Laboratory, USA
4. **Mechanical and thermal properties of Zeta phase tantalum carbide at elevated temperatures**
Evan Schwind, Missouri University of Science and Technology, USA
5. **Design of ultra-high temperature ceramics for oxidation resistance**
Niquana Smith, University of Virginia, USA
6. **Steady-state thermal emission (SSTE); a modulated pyrometry method**
John A. Tomko, University of Virginia, USA
7. **Environmental conical nozzle levitator equipped with dual lasers**
Fox Thorpe, University of California, Davis, USA
8. **Investigation of anomalous hardness in sub-stoichiometric transition metal carbides using ab-initio simulations**
Brennan Watkins, Colorado State University, USA
9. **Oxidation behavior of Cf / MC – MB₂ – SiC (with M = Hf, Zr) composites in an oxyacetylene torch environment**
Thomas Bourdeau, Laboratory for thermo-structural composites LCTS (CNRS-CEA-Safran-UB), France
10. **Textured UHTC borides using extremely low magnetic fields: influence of colloidal processing parameters and material selection**
Juan Diego Shiraishi, Virginia Polytechnic Institute and State University, USA
11. **Finite difference simulation of phase transformation kinetics in transition metal carbide composites**
John Carter Stotts, Colorado State University, USA
12. **Mixing the transition metals in transition metal carbides**
Christopher Weinberger, Colorado State University, USA
13. **Oxidation kinetics of sub-stoichiometric ZrC_x via furnace testing to 2500°C / 1 atm air**
Mark Opeka, Southern Research Institute, USA
14. **Oxidation of TaC-HfC blends densified by spark plasma sintering**
Maritza Sanchez, University of California, San Diego, USA
15. **Computational study of temperature in a millimeter wave heat exchanger with an AlN:Mo Susceptor on an isothermal metal plate**
Vadim Yakovlev, Worcester Polytechnic Institute, USA

16. **Cold spray deposition of metallic-UHTC composites**
Michael Large, University of Alabama, USA
17. **Phase evolution in thermally annealed metallic-UHTC composites**
Michael Large, University of Alabama, USA
18. **Diffusional and microstructural profiles in metallic-to-UHTC conversion by carbonization**
Haas Blacksher, the University of Alabama, USA
19. **Materials processing and property-structure characterization capabilities at The University of Alabama**
Gregory Thompson, The University of Alabama, USA