

## Poster Presentations

1. **Water vapor corrosion of environmental barrier coating produced by electrophoretic deposition**  
Ahmet Hilmi Paksoy, The University of Manchester, United Kingdom
2. **Evaluation of mechanical behavior of bimodal microstructure of Al<sub>2</sub>O<sub>3</sub>-YSZ-CNT plasma sprayed coatings**  
Alok Bhadauria, Indian Institute of Technology, Kanpur, India
3. **Reactions of rare earth hafnates and zirconates with silicate melts of different basicity**  
Andrew R. Ericks, University of California, Santa Barbara, USA
4. **Modified bond coat by EB PVD for TBC**  
Andrii Marynskyi, Paton Turbine Technologies, Ukraine
5. **Debye-Larmor high enthalpy cascade plasma gun technology to apply ceramic coatings for the turbine industry**  
Armando Salito, Gulhfi Consulting AG, Switzerland
6. **Determination of interface fracture energy of YSZ coating by modified clamped beam bending**  
Ashwini Kumar Mishra, Indian Institute of Technology Bombay, India
7. **TUBA Nova - A novel industrial EB-PVD coater platform for state-of-the-art TBCs and multi-layer coatings**  
Carsten Deus, VON ARDENNE GmbH, Germany
8. **Investigating the microstructure of as-sprayed high-crystalline Yb<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> environmental barrier coating (EBC) deposited by atmospheric plasma spray (APS)**  
Christian Moreau, Concordia University, Canada
9. **Microstructure modification of EB-pvd gadolinium zirconate thermal barrier coatings and the effect on their resistance against siliceous CMAS melts**  
Christoph Mikulla, German Aerospace Center (DLR), Germany
10. **Thermal Environmental Barrier Coatings (TEBCs), and their deposits-induced degradation and its mitigation**  
Christopher Louzon, Brown University, USA
11. **Synthesis of multi component rare-earth silicate systems for T/EBC application: Study of their high temperature interactions with CMAS**  
Cynthia Yanel Guijosa Garcia, German Aerospace Center (DLR), Germany
12. **Environmental barrier coatings deposited by suspension plasma spraying**  
Dapeng Zhou, Forschungszentrum Jülich GmbH, Germany
13. **Understanding garnet phase stability in Gd/Y/Yb-CMAS systems and influences on multiphase T/EBC-CMAS interactions**  
Eeshani Paresh Godbole, University of Minnesota, USA
14. **Mechanical properties of Yb<sub>2</sub>Si<sub>2</sub>O<sub>7</sub> coatings prepared using electrophoretic deposition**  
Esma Yilmaz, University of Manchester, United Kingdom

15. **Ytterbium silicate environmental barrier coatings prepared by a novel slurry spraying-reactive sintering technique**  
Gauri Waghmare, Indian Institute of Technology Bombay, India
16. **Environmental Barrier Coatings (EBC) based on Rare Earth Silicates for the protection of aircraft engines components: Optimization of process parameters and characterization**  
Giulia Di Iorio, Sapienza University of Rome, Italy
17. **Effect of thermal spray processing and powder morphology on environmental barrier coatings (EBCs) performance under high temperature water vapor conditions**  
Gopal Dwivedi, Stony Brook University, Center for Thermal Spray Research, USA
18. **Multicomponent equimolar "high entropy" oxides with fluorite/pyrochlore structure for thermal barrier application**  
Harshad Uday Gandhe, Indian Institute of Technology Bombay, India
19. **Concepts for enhancing the life of environmental coatings systems**  
Jeroen Deijkers, University of Virginia, USA
20. **Coatings for increased efficiency in compression ignition engines**  
John Saputo, Stony Brook University, Center for Thermal Spray Research, USA
21. **A coupled thermal and mechanical analysis of sintering in thermal barrier coatings under gradient exposure**  
John Saputo, Stony Brook University, Center for Thermal Spray Research, USA
22. **Effects of EB-PVD microstructural features on CMAS infiltration of Yttria-rich zirconia coatings**  
Juan Gomez, Pratt & Whitney, USA
23. **Thermochemical stability of high entropy rare earth oxide (HERO) coatings for refractory alloys**  
Kristyn Ardrey, University of Virginia, USA
24. **Intrinsic and extrinsic failure of thermal barrier coatings and thermal conductivity evolution under adverse environments: Towards an integrated modeling**  
Kuiying Chen, National Research Council Canada, Canada
25. **Novel multicomponent equiatomic pyrochlores for future thermal barrier coatings**  
Maren Lepple, DECHEMA-Forschungsinstitut, Germany
26. **Spatially resolved characterization of thermally grown oxides using time-domain thermoreflectance**  
Milena Milich, University of Virginia, USA
27. **Advanced suspensions for plasma sprayed thermal barrier coatings**  
Richard Trache, Treibacher Industrie AG, Austria
28. **Study of an atmospheric plasma torch operating under 1 kW of power for the local deposition of YSZ thermal barrier coatings**  
Sandra Segondy, Chimie ParisTech, PSL Research University, France
29. **Simultaneous residual stress mapping of topcoat and TGO in APS TBC using combined micro-Raman-PL spectroscopy**  
Srikanth Batna, Indian Institute of Technology Bombay, India

30. **Evaluation of next generation rare-earth silicate EBC coatings obtained from electrofused powders**  
Stéphane Raffy, Saint-Gobain, France
31. **Lessons learned in design and characterization of EBC spray powders**  
Ursa Pirnat, Treibacher Ind. AG, Austria
32. **A comparative study of phase evolution in YSZ powders, pellets and free-standing air plasma sprayed thermal barrier coatings**  
Vikram Hastak, Indian Institute of Technology Bombay, India
33. **SiC-based/EBC Coating systems investigated by LASAT (LAsER Shock Adhesion Test)**  
Vincent Guipont, MINES Paris - PSL / Centre des Matériaux (CNRS 7633), France
34. **Non-destructively capturing CMAS degradation of EB-PVD thermal barrier coatings through 3D confocal Raman renderings**  
Zachary Stein, University of Central Florida, USA
35. **The utilization of laser thermal testing with thermographic measurement for TBC lifetime performance evaluation**  
Zdeněk Veselý, University of West Bohemia, Czech Republic