

Thermal Barrier Coatings II: Poster Presentations

1. INTERDEPENDENCE OF DIFFUSIVE AND OXIDATION PROCESSES IN THERMAL BARRIER COATING SYSTEMS WITH TIALCR BOND LAYERS
Valeriy Oliker, Institute for Problems of Materials Science of Ukrainian National Academy of Sciences
2. IMPORTANCE OF BOND-COAT SPRAY PROCESS IN A APS-TBC
Yasuhiro YAMAZAKI, Niigata Institute of Technology
3. EFFECT OF THERMAL AND MECHANICAL LOADINGS ON THE DEGRADATION AND FAILURE MODES OF APS TBCS
Olena Trunova, Research Centre Juelich GmbH
4. THERMAL AND MECHANICAL PROPERTIES OF YTTRIA DOPED GADOLINIUM ZIRCONATE TBC MATERIALS DEPOSITED BY EBPVD
Kee Sung Lee, Kookmin University
5. CROSS-SECTIONAL NANO-INDENTATION OF EB-PVD YSZ
Nicolas J. Vecchione, Imperial College London
6. ON THE MICROSTRUCTURE – THERMAL CONDUCTIVITY RELATIONSHIPS FOR PLASMA SPRAYED YTTRIA STABILIZED ZIRCONIA COATINGS
Sanjay Sampath, Center for Thermal Spray Research
7. MECHANISM OF DELAMINATION IN THERMAL BARRIER SYSTEMS SUBJECT TO CMAS PENETRATION
Sabine Faulhaber, University of California Santa Barbara
8. EFFECTS OF SUBSTRATE ALLOY ON THE HIGH-TEMPERATURE OXIDATION BEHAVIOR OF THERMAL BARRIER COATINGS
Limin He, Beijing Institute of Aeronautical Materials
9. THE MECHANICAL PROPERTIES OF THERMAL BARRIER COATINGS DEPOSITED ON DIFFERENT BOND COATS
Carolin Pfeiffer, University Erlangen-Nürnberg
10. ENHANCED PLASMA SPRAYED THERMAL BARRIER COATING FOR GAS TURBINES COMBUSTION BASKETS AND TRANSITION PIECES
Andrea Scrivani, Turbocoating S.p.A
11. DEPOSITION OF RHENIUM THERMAL BARRIER COATINGS USING AN ORIGINAL ANODIC ARC PLASMA
Cristina Surdu-Bob, National Institute for Lasers
12. INVESTIGATION ON THE SPINEL FORMATION IN THERMAL BARRIER SYSTEMS WITH A PT-ENRICHED G-NI+G'-NI₃AL BOND COAT
X. Zhao, University of Manchester
13. NOVEL THERMAL BARRIER COATINGS (TBCS) THAT ARE RESISTANT TO HIGH TEMPERATURE ATTACK BY CAO-MGO-AL₂O₃-SIO₂ (CMAS) GLASSY DEPOSITS
Aysegul Aygun, The Ohio State University

14. OXIDATION AND CREEP OF PRECIOUS METAL MODIFIED NI-BASED SUPERALLOYS
Jason Van Sluytman, University of Michigan
15. TERBIUM AS AN ALTERNATIVE DOPANT FOR LUMINESCENCE SENSING OF TEMPERATURE IN THERMAL BARRIER SYSTEMS
Matthew Chambers, University of California
16. IN SITU MEASUREMENTS OF THE YOUNG'S MODULUS STRAIN DEPENDENCE AND INTERFACE CRACK PROPAGATION IN COLUMNAR THERMAL BARRIER COATING SYSTEMS
Chris Eberl, Johns Hopkins University
17. CMAS ON ENVIRONMENTAL BARRIER COATINGS: INTERACTIONS AND EFFECTS
Kendra M. Grant, University of California
18. LOCAL STRESS MAPPING IN THERMALLY-GROWN-OXIDE BY NEAR-FIELD OPTICAL LUMINESCENCE SPECTROSCOPY
Toru Tomimatsu, The University of Tokyo
19. THERMAL EXPANSION MEASUREMENTS ON VARIOUS BOND COAT AND SUPERALLOY SYSTEMS BY DIGITAL IMAGE CORRELATION
Robert Thompson, Johns Hopkins University
20. THERMAL/MECHANICAL LOADING HISTORY AND MICROSTRUCTURE OF TGO IN EB-PVD TBCS
Makoto Hasegawa, Yokohama National University
21. OXIDATION OF MCRAZY COATINGS IN NI-BASED SUPERALLOYS
Michael Pace, Loughborough University
22. MECHANISTIC ASPECTS OF Pt-Modified β -NiAl ALLOY OXIDATION
Jerzy Jedlinski, AGH University of Science and Technology, Poland