Edgar Lara-Curzio

## Publications:

### Books and Book Chapters:

1. G. Wicks, J. Simon, R. Zidan, E. Lara-Curzio, T. Adams, J. Zayas, A. Karkamkar, R. Sindelar and B. Garcia-Diaz, "Materials Challenges in Alternative and Renewable Energy (MCARE 2010)," Ceramic Transactions, vol. 224 (2011) Wiley.
2. E. Lara-Curzio, Editor, Mechanical Properties and Performance of Engineering Ceramics and Composites, Proceedings of the 31st International Conference on Advanced Ceramics and Composites held at Daytona Beach, Florida, January 21-26, 2007. Issued as part of the *Ceramic Engineering and Science Proceedings*, **Volume 28**, Issue No. 2.
3. A. Wereszczak and E. Lara-Curzio, Editors, Proceedings of the 30th International Conference on Advanced Ceramics and Composites held at Cocoa Beach, Florida, January 22-27, 2006. Issued as part of the *Ceramic Engineering and Science Proceedings*, **Volume 27**, Issues 1-8.
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5. M. Singh, R. J. Kerans, E. Lara-Curzio and R. Naslain, Editors, *High Temperature Ceramic Matrix Composites 5*, Proceedings of the 5th International Conference on High Temperature Ceramic Matrix Composites, Seattle, September 12-16, 2004 The American Ceramic Society, Westerville, OH (2004).
6. E. Lara-Curzio and Michael Readey, Editors, Proceedings of the 28th International Conference on Advanced Ceramics and Composites held at Cocoa Beach, Florida, January 25-30, 2004. Issued as part of the *Ceramic Engineering and Science Proceedings*, **Volume 25**, Issues 3 and 4.
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8. Synthesis and Processing of Nanostructured Materials, Ceramic Engineering and Science Proceedings, Cocoa Beach by Andrew Wereszczak, Edgar Lara-Curzio, and William M. Mullins (Nov 28, 2006).

9. Advanced Ceramic Coatings and Interfaces, Ceramic Engineering and Science Proceedings, Cocoa Beach by Andrew Wereszczak, Edgar Lara-Curzio, Dongming Zhu, and Uwe Schulz (Dec 5, 2006),
10. Advances in Solid Oxide Fuel Cells II, Ceramic Engineering and Science Proceedings, Cocoa Beach by Andrew Wereszczak, Edgar Lara-Curzio, and Narottam P. Bansal (Nov 28, 2006),
11. Ceramics in Nuclear and Alternative Energy Applications, Ceramic Engineering and Science Proceedings, Cocoa Beach by Andrew Wereszczak, Edgar Lara-Curzio, and Sharon Marra (Dec 5, 2006)
12. Advances in Bioceramics and Biocomposites II, Ceramic Engineering and Science Proceedings by Andrew Wereszczak, Edgar Lara-Curzio and Mineo Mizuno (Nov 28, 2006),
13. Mechanical Properties and Performance of Engineering Ceramics II, Ceramic Engineering and Science Proceedings, Cocoa Beach by Andrew Wereszczak, Edgar Lara-Curzio and Rajan Tandon (Nov 28, 2006),
14. E. Lara-Curzio, "Properties of Continuous Fiber-Reinforced Ceramic Matrix Composites for Gas Turbine Applications," Chapter 22, in Ceramic Gas Turbine Design and Test Experience: Progress in Ceramic Gas Turbine Development, Vol. 2, Ed. M. van Roode, M. K. Ferber, and D. W. Richerson (2003).
15. E. Lara-Curzio, "Properties of CVD Ceramic Matrix Composites," Comprehensive Composite Materials Encyclopedia, Volume 4, Chapter 18, Elsevier, London, August 2000.
16. E. Lara-Curzio, "Composite Systems," Chapter 17, Section 1, in *Handbook of Ceramic Engineering*, Marcel Dekker, New York. (1999).
17. E. Lara-Curzio and M. K. Ferber, "Determination of Interfacial Properties and Stresses in Continuous Fiber-reinforced Ceramic Composites by Means of Single-fiber Indentation Tests," chapter 12 in *Numerical Analysis and Modeling of Composite Materials*, Ed. J. W. Bull, Blackie Academic & Professional (1995) pp. 357-399.
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19. *Thermal and Mechanical Test Methods and Behavior of Continuous Fiber Ceramic Composites*, ASTM STP 1309, M. G. Jenkins, S. T. Gonczy, E. Lara-Curzio, N. E. Ashbaugh and L. P. Zawada, Editors, American Society for Testing and Materials, Philadelphia, PA 1996.

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1. E. Lara-Curzio, K. An, J. O. Kiggans, N. J. Dudney, C. I. Contescu, F. S. Baker, B.L. Armstrong, "Lightweight, Durable Lead-Acid Batteries, U.S. Patent No. 8,017,273
2. T. M. Yonushonis, R. J. Stafford, E. Lara-Curzio and A. Shyam, "Apparatus, System and Method for Detecting Cracking within an Aftertreatment Device," U.S. Patent No. 7,701,231
3. E. Lara-Curzio, K. L. More, and W. Y. Lee, "Oxidation-Resistant Interfacial Coating for Fiber-Reinforced Ceramic," US Patent 6,322,889.

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2. N. Chawla, P.K. Liaw, E. Lara-Curzio, M.K. Ferber and R.A. Lowden, "Effect of fiber fabric orientation on the flexural monotonic and fatigue behavior of 2D woven ceramic matrix composites," *Mat. Sci. Eng* **A** 557 (2012) 77–83.
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4. E. Martin, F. Pavia, A. Ventrella, M. Avalle, M. Ferraris and E. Lara-Curzio "A Brazilian Disk Test for the Evaluation of the Shear Strength of Epoxy-Joined Ceramics," *Int. J. Appl. Ceram. Technol.*, 1–8 (2012).
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53. B. Chelluri, A. A. Knoth, E. J. Shumaker, J. P. Barber, L. P. Franks, R. Trejo, E. Lara-Curzio and R. Sooryakumar "High-Performance SiC Processing via Magnetic Compaction and Pressureless Sintering," presented at the 30th International

Conference & Exposition on Advanced Ceramics and Composites, Cocoa Beach, FL January 22-27, 2006.

54. E. Lara-Curzio, "Thermomechanical Limitations of Solid Oxide Fuel Cells," **Invited Presentation** at 2nd. REAL SOFC Workshop, June 22, 2005 Simmerath-Einruhr, Germany.

55. E. Lara-Curzio, "Probabilistic Design of Solid Oxide Fuel Cells," **Invited Presentation**, Materials Science & Engineering Department Seminar, Northwestern University, June 1st, 2005.

56. P. J. Maziasz, J. P. Shingledecker, B. A. Pint, N. D. Evans, Y. Yamamoto, K. L. More, and E. Lara-Curzio, "Overview of Creep Strength and Oxidation of Heat-Resistant Alloy Sheets and Foils for Compact Heat-Exchangers," Presented at ASME Turbo Expo 2005, *Power for Land, Sea and Air*, June 6-9, 2005, Paper GT2005-68927.

57. E. Lara-Curzio, R. M. Trejo, K. L. More, P. J. Maziasz, and B. A. Pint, Evaluation and Characterization of Iron- and Nickel-Based Alloys for Microturbine Recuperators," Presented at ASME Turbo Expo 2005, *Power for Land, Sea and Air*, June 6-9, 2005, Paper GT2005-68630.

58. E. Lara-Curzio, "Probabilistic Design of Solid Oxide Fuel Cells," **Invited Presentation** at the Applied Mechanics, Materials & Reliability Worldwide Functional Excellence Conference, Cummins World Headquarters, Columbus, IN, February 21st, 2005.

59. E. Lara-Curzio and M. Radovic, "The Effect of Friction on the Magnitude of the Equibiaxial Strength Determined by the Ring-on-Ring Test," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 24-28, 2005.

60. M. Radovic, E. Lara-Curzio, Rosa Trejo, Thomas Watkins, Beth Armstrong, and Claudia Walls, "Effect of Thermal Cycling on the Properties of Ni-YSZ Anodes and Ni-YSZ/YSZ Bilayers," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 24-28, 2005.

61. R. Vaidyanathan, T. Phillips, J, Halloran, L. Riester, M. Radovic, W. Porter and E. Lara-Curzio, "Mechanical and Thermal Properties of Non-Aqueous Gelcast Celsian and SiAlON Ceramic Materials," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 24-28, 2005.

62. M. Radovic, T. Zhen, M. Barsoum, T. El-Raghy and E. Lara-Curzio, "Experimental Study of Dynamic Non-linear Behavior of $Ti_3SiC_2$ and $Ti_2AlC$ in 298-1537 K Temperature Range by Resonant Ultrasound Spectroscopy," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 24-28, 2005.

63. J. Lloyd, L. Fegely, S. Kalidindi, N. Orlovskaya, C. Rawn, S. Speakman, M. Radovic and E. Lara-Curzio, "Effect of the Environment on the Thermal and

Structural Properties of $LaBO_3$ (B=Co, Fe, And Ga) Based Perovskites," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 24-28, 2005.

64. P. Pastila, E. Lara-Curzio, A-P. Nikkila and T. Mantyla, "Tensile Testing of SiC-Based Hot Gas Filters at 600°C Water Vapor," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 24-28, 2005.

65. E. Lara-Curzio, "Reliability and Durability of Solid Oxide Fuel Cells," **Invited Lecture** at Structural Mechanics Seminar Series, Georgia Institute of Technology, January 13, 2005.

66. E. Lara-Curzio, Invited lecturer, "Columbia Accident Investigation," Friends of ORNL, Oak Ridge, TN, December 13, 2004.

67. E. Lara-Curzio, R. M. Trejo, K. L. More, P. J. Maziasz, and B. A. Pint, "Screening and Evaluation of Materials for Advanced Microturbine Recuperators," Presented at ASME Turbo Expo 2004, June 14-17, 2004 Vienna, Austria, Paper GT-2004-54255.

68. P. J. Maziasz, B. A. Pint, J. P. Shingledecker, K. L. More, N. D. Evans and E. Lara-Curzio, "Austenitic Stainless Steels and Alloys With Improved High-Temperature Performance for Advanced Microturbine Recuperators," Presented at ASME Turbo Expo 2004, June 14-17, 2004 Vienna, Austria, Paper GT-2004-54239.

69. E. Lara-Curzio, H. Wang, S. D. Nunn and R. Trejo, "Quantitative Assessment of Sub-Surface Damage, Mass Loss and Residual Strength in Coated Structures Using the Transient Planar Source Test Method," Presented at the 106th Annual Meeting and Exposition of The American Ceramic Society, Indianapolis, IN April 20, 2004.

70. E. Lara-Curzio, T. R. Watkins, R. Trejo, C. R. Luttrell, M. Radovic, W. Li, J. Lannutti and D. England, "Effect of Temperature and $H_2$-Induced Reduction on the Magnitude of Residual Stresses in YSZ-NiO/YSZ Bi- Layers," Presented at the 106th Annual Meeting and Exposition of The American Ceramic Society, Indianapolis, IN April 21, 2004.

71. M. Radovic, E. Lara-Curzio, B. L. Armstrong, C. A. Walls, "Elastic Properties, Biaxial Strength and Fracture Toughness of Nickel-Based Anode Materials for Solid Oxide Fuel Cells," Presented at the 106th Annual Meeting and Exposition of The American Ceramic Society, Indianapolis, IN April 21, 2004.

72. M. Radovic, E. Lara-Curzio, L. Riester, B. Sears, "Comparison of Different Experimental Techniques for Determination of Elastic Properties of Solids," Poster Presentation at the 106th Annual Meeting and Exposition of The American Ceramic Society, Indianapolis, IN April 20, 2004.

73. M. Radovic, E. Lara-Curzio, B. L. Armstrong, P. F. Tortorelli, L. R. Walker, "Effect of Hydrogen Reduction on the Microstructure and Elastic Properties of Ni-Based Anodes for SOFCs," Presented at the 106th Annual Meeting and Exposition of The American Ceramic Society, Indianapolis, IN April 21, 2004.

74. E. Lara-Curzio, "Effect of Hydrogen Reduction on the Thermomechanical Properties of Ni-Based Anodes for Solid Oxide Fuel Cells," **Invited Presentation** at International Symposium on Solid Oxide Fuel Cell (SOFC) Materials and Technology, Cocoa Beach Florida, January 29, 2004 .

75. E. Lara-Curzio, "Properties of Continuous Fiber-Reinforced Ceramic Matrix Composites for Gas Turbine Applications," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 25-30, 2004.

76. T. Hinoki, E. Lara-Curzio, L. L. Snead, "Effect of Interphase on Transthickness Tensile Strength of High-Purity Silicon Carbide Composites," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 25-30, 2004

77. P. F. Tortorelli, K. L. More, E. Lara-Curzio, M. Ferber, J. R. Keiser and D. P. Stinton, "Facilities for Environmental testing of Ceramic Monoliths, Composites and Coatings for use in Combustion Applications," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 25-30, 2004

78. K. L. More, E. Lara-Curzio, P. Tortorelli, A. Szweda, M. Stewart and D. Carruthers, "Evaluating the High-Temperature Stability of an Oxide/Oxide Composite Material at High Water Vapor Pressure," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 25-30, 2004.

79. M. Radovic, E. Lara-Curzio, B. L. Armstrong, L. R. Walker, P. Tortorelli, C. A. Walls, "Reaction Kinetics and Structural Changes Associated with the Hydrogen Reduction of NiO/YSZ," Presented at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 29, 2004.

80. M. Radovic, E. Lara-Curzio, B. L. Armstrong, C. A. Walls, "Elastic Properties, Equibiaxial Strength and Fracture Toughness of 8mol%YSZ Electrolytes for SOFCs," Poster Presentation at 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 28, 2004.

81. K. Breder, E. Lara-Curzio, L. Riester, "Strength Testing System for Ceramic Grains," 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 27, 2004.

82. M. Radovic, E. Lara-Curzio, L. Riester, "Evaluation of Four Different Experimental Techniques for Determination of Elastic Properties of Solids," 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 27, 2004.

83. T. Nozawa, E. Lara-Curzio, Y. Katoh, and A. Kohyama, "Experimental and Analytical Approaches to Account for Specimen Size Effects on the Tensile Properties of CMCs" 28th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 27, 2004.

84. E. Lara-Curzio and H. Wang, "Assessment of Mass Loss and Residual Strength of RCC Materials for Space Shuttle Leading Edge Panels," Technical Interchange Meeting, Kennedy Space Center, Florida May 18, 2003.

85. E. Lara-Curzio, R. Trejo, K. L. More, B. A. Pint, P.J. Maziasz, "Screening and Evaluation of Candidate Materials for Advanced Microturbine Recuperators," Paper GT2003-38915, ASME Turbo Expo, Atlanta GA., June 18, 2003.

86. E. Lara-Curzio, R. Trejo, K. L. More, B. A. Pint, P.J. Maziasz, "Residual Properties of Microturbine Recuperators," Paper GT2003-38913, ASME Turbo Expo, Atlanta GA., June 18, 2003,

87. P.J. Maziasz, B. A. Pint, R.W. Swindeman, K. L. More, and E. Lara-Curzio, "Selection, Development and Testing of Stainless Steels and Alloys for High-Temperature Recuperator," Paper GT2003-38762, ASME Turbo Expo, Atlanta GA., June 18, 2003,

88. E. Lara-Curzio, "Development of Standardized Test methods for Ceramic matrix Composites," 2003 Fulrath Award Symposium, 105th Annual Meeting of the American Ceramic Society, Nashville, TN April 27-30, 2003.

89. E. Lara-Curzio, "Reliability and Durability of Solid Oxide Fuel Cell Materials & Components," SECA Core Technology Program Review, Sacramento, CA, February 23, 2003.

90. E. Lara-Curzio, "Development of a New ASTM Fiber Test Standard," Department Seminar, Department of Materials Science and Engineering, University of Tennessee-Knoxville, March 11, 2003.

91. S. Hayes, W. Sherwood, D. Stiles, C. Voorhees, R. Dinwiddie, E. Lara-Curzio, W. Porter, L. Riester, H. Wang, "Thermal Properties of Polycarbosilane Derived Porous Silicon Carbide Composites," Presented at the 27th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 26-31, 2003.

92. R. Rodriguez-Verdugo, O. O. Ochoa, and E. Lara-Curzio, "Tensile Evaluation of Ceramic Foam Ligaments," Presented at the 27th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 26-31, 2003.

93. P. H. Pastila, E. Lara-Curzio, A. Nikkila, T.A. Mantyla, "Fracture Behavior of SiC-Based, Clay-Bonded Hot Gas Filters," Presented at the 27th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 26-31, 2003.

94. M. Radovic, E. Lara-Curzio, T. R. Armstrong, C. A. Walls, "Effect of Thickness and Porosity on the Mechanical Properties of Planar Components for Solid Oxide Fuel Cells," Presented at the 27th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 26-31, 2003.

95. T. Hinoki, E. Lara-Curzio, and L. L. Snead, "Transthickness Tensile Strength of SiC/SiC Composites," Presented at the 27th Annual Cocoa Beach Conference &

Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 26-31, 2003.

96. T. Nozawa, Y. Katoh, A. Kohyama, E. Lara-Curzio, "Specimen Size Effect on the Tensile and Shear Properties of the High-Crystalline and High-Dense SiC/SiC Composites," Presented at the 27th Annual Cocoa Beach Conference & Exposition on Advanced Ceramics & Composites, Cocoa Beach Florida, January 26-31, 2003.

97. T. Hinoki, E. Lara-Curzio and L.L. Snead, "Mechanical Properties of SiC Fiber-Reinforced CVI-SiC Matrix Composites," American Nuclear Society 15th Topical Meeting 15th Technology of Fusion Energy November 17-21, 2002 - Washington, D.C.

98. E. Lara-Curzio, "Development of Standardized Test Methods for Ceramic Matrix Composites," **Invited Presentation**, Center for Electronic Ceramics, Dong-eui University, Busan, Korea, October 29, 2002.

99. E. Lara-Curzio, "A New ASTM Standard Test Method for the Tensile Evaluation of Ceramic Fibers," **Invited Presentation**, Center for Electronic Ceramics, Dong-eui University, Busan, Korea, October 29, 2002.

100. E. Lara-Curzio, "The Meaning of Precision and Bias In Standardized Test Methods," **Invited Presentation** at Department of Mechanical Engineering, Dong-eui University, Busan, Korea, October 29, 2002.

101. E. Lara-Curzio, "Development of Standardized Test Methods for Ceramic Matrix Composites," **Invited Presentation** at Korea's Research Institute for Science and Standards, Daejon, Korea, October 28, 2002.

102. E. Lara-Curzio, "Screening and Evaluation of Materials for Advanced Microturbine Recuperators," **Invited Presentation** at Materials Engineering Department Seminar, University of Alabama-Birmingham, September 17, 2002.

103. E. Lara-Curzio, P. J. Maziasz, B. A. Pint, M. Stewart, D. Hamrin, N. Lipovich, and Dan DeMore, "Test Facility for Screening and Evaluating Candidate Materials for Advanced Microturbine Recuperators," Presented at ASME TURBO EXPO 2002, June 3-6, 2002 Amsterdam, The Netherlands, Paper GT-2002-30581.

104. E. Rocha-Rangel, P. F. Becher, and E. Lara-Curzio, "Influence of Carbon on the Interfacial Contact Angle Between Alumina and Liquid Aluminum," Presented at Surface Analysis '02, 24th Annual Topical Symposium on Applied Surface Analysis, Vanderbilt, University, Nashville, TN May 20-22, 2002.

105. E. Lara-Curzio, "Status of Standardization Activities for Ceramic Matrix Composites in the United States," **Invited Presentation** at CREST-International Symposium on SiC/SiC Composite Materials R & D and Its Application to Advanced Energy Systems," May 20-22, 2002, Kyoto, Japan.

106. E. Lara-Curzio, "Standardization of Test Procedures for the Tensile Evaluation of Ceramic Fibers," **Invited Presentation** at CREST-International Symposium on SiC/SiC Composite Materials R & D and Its Application to Advanced Energy Systems," May 20-22, 2002, Kyoto, Japan.

107. T. Nozawa, E. Lara-Curzio, Y. Katoh and A. Kohyama, "Specimen Size Effect on the In-Plane Shear Properties of SiC/SiC Composites," at the 104th Annual Meeting and Exposition of the American Ceramic Society, St. Louis, MO May 1, 2002.

108. T. Hinoki and E. Lara-Curzio, "Transthickness Tensile Strength of Oxide-Oxide Ceramic Matrix Composites," at the 104th Annual Meeting and Exposition of the American Ceramic Society, St. Louis, MO May 1, 2002.

109. M. A. Burke, D. G. Thompson, J. Morrison, J. E. Lane, S. C. Butner, A. Szweda and E. Lara-Curzio, "Mechanical Properties Testing for Database and Constitutive Modeling of CMC Composites," Presented at the 17th Annual Meeting of the American Society for Composites.

110. M. Gasch, J. Wan, K. Liu, E. Lara-Curzio and A. Mukherjee, "Creep of Silicon Nitride/Silicon Carbide Ceramic Nanocomposites," Annual Meeting of The Minerals, Metals & Materials Society, Seattle, Washington, February 2002.

111. E. Stankiewiccz and E. Lara-Curzio, "Room Temperature O-Ring Tensile Strength of SiC Foam as a Quality Control Method," Presented at the 26th Annual International Conference on Advanced Ceramics and Composites, Cocoa Beach, Florida January 13-18, 2002.

112. E. Stankiewiccz and E. Lara-Curzio, "Room Temperature O-Ring Tensile Strength of SiC Foam as a Function of Temperature," Presented at the 26th Annual International Conference on Advanced Ceramics and Composites, Cocoa Beach, Florida January 13-18, 2002.

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115. E. Lara-Curzio, M-L, Antti, and R. Warren, "The Effect of Specimen Size and Temperature on the Notch-Sensitivity of Oxide-Oxide Ceramic Matrix Composites," 10th. International Fracture Conference, Honolulu, HI December 1-6, 2001.

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118. E. Lara-Curzio, "Mil Handbook 17 on Ceramic Matrix Composites: Overview of Test Methods," 25th Annual Conference on Composites Materials and Structures, January 23, 2001, Cape Canaveral, FL.

119. M. Antti and E. Lara-Curzio, "Effect of Notches, Specimen Size, and Fiber Orientation on the Monotonic Tensile Behavior of Continuous Fiber Reinforced Oxide/Oxide Composites at Ambient and Elevated Temperatures," Presented at 25th Annual International Conference on Advanced Ceramics and Composites, Cocoa Beach, Florida January 21-26, 2001.

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121. M. Antti, E. Lara-Curzio, and M.K. Ferber, "Damage Evolution in Continuous Fiber-Reinforced Oxide/Oxide Composites under Cyclic Loading," Poster Presentation at 25th Annual International Conference on Advanced Ceramics and Composites, Cocoa Beach, Florida January 21-26, 2001.

122. E. Lara-Curzio and D. Garcia Jr., "Strength Statistics of Fiber Bundles: The Effect of Diameter Variation Along and Among Fibers, on the Determination of the Parameters of the Distribution of Fiber Strengths," Poster Presentation at 25th Annual International Conference on Advanced Ceramics and Composites, Cocoa Beach, Florida January 21-26, 2001.

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125. E. Lara-Curzio, "Evolution of Fiber Microstructure and its Effect on the Time-Dependent Deformation and Stress-Rupture Behavior of Oxide/Oxide Composites," University of Alabama-Tuscaloosa, Seminar, Materials Science & Engineering Department, October 19, 2000.

126. E. Lara-Curzio, "Evolution of Fiber Microstructure and its Effect on the Time-Dependent Deformation and Stress-Rupture Behavior of Oxide/Oxide Composites," Meeting of the Mexican Academy of Materials, Cancun, Mexico August 28, 2000.

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128. E. Lara-Curzio, "Stress-Rupture Behavior of Oxide/Oxide Composites," at Institute of Advanced Energy, Kyoto University, Kyoto Japan. July 3, 2000.

129. E. Lara-Curzio, "Evolution of Fiber Microstructure and its Effect on the Time-Dependent Deformation and Stress-Rupture Behavior of Oxide/Oxide Composites," **Invited Presentation** at the 10th Iketani Conference on Materials Research, Karuizawa Prince Hotel, Karuizawa Japan, June 26-30, 2000.

130. T. Nozawa, T. Hinoki, Y. Katoh, A. Kohyama, E. Lara-Curzio, "Influence of Specimen Geometry on Tensile Properties of 3-D SiC/SiC Composites," Poster Presentation at 102nd Annual Meeting & Exposition of the American Ceramic Society, St. Louis, MO April 29-May 3, 2000.

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134. E. Lara-Curzio, "SiC/SiC Thermo-physical Properties Including Creep Strength" Presented at the International Town Meeting on SiC/SiC Design and Material Issues for Fusion Systems, Oak Ridge National Laboratory, Oak Ridge, TN. January 18-19, 2000.

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136. E. Lara-Curzio, "State of the Art of the Development and Characterization of Advanced Structural Ceramics," **Invited Presentation**, International Congress of Engineering Physics, Autonomous Metropolitan University, Mexico City, Mexico, October 4-8, 1999.

137. E. Lara-Curzio, "Development of Data Bases for Continuous Fiber-Reinforced Ceramic Matrix Composites in the United States," **Invited Presentation**, 9th International Symposium on Ultra-High Temperature Materials, JUTEMI '99, Japan's Ultra-High Temperature Materials Research Center, Tajimi City, Japan, September 9-10, 1999.

138. E. Lara-Curzio, "Thermomechanical Characterization of SiC/SiC CFCCs for Long-duration, High-Temperature Applications," **Invited Presentation** at Institute of Advanced Energy, Kyoto University, Kyoto Japan. September 6, 1999.

139. E. Lara-Curzio, "Assessment of Durability and Reliability of CFCCs Based on Stress-Rupture and Overstressing," **Invited Presentation** at Japan Fine Ceramics Center, Nagoya, Japan. September 8, 1999.

140. E. Lara-Curzio, "Round-Robin Program to Determine Precision and Bias Statements for ASTM Test Standard C1292," **Invited Presentation** at Japan Fine Ceramics Center, Nagoya, Japan. September 8, 1999.

141. E. Lara-Curzio, "Assessment of Durability and Reliability of CFCCs Based on Stress-Rupture and Overstressing," **Invited Presentation** at Institute of Industrial Science, Tokyo University, Tokyo, Japan. September 13, 1999.

142. E. Lara-Curzio, "On the Relationships Between the Parameters of the Distributions of Fiber Strengths, Fiber Diameters and Breaking Loads," **Invited Presentation** at Institute of Industrial Science, Tokyo University, Tokyo, Japan. September 13, 1999.

143. E. Lara-Curzio, "On the Relationships Between the Parameters of the Distributions of Fiber Strengths, Fiber Diameters and Breaking Loads," **Invited Presentation** at National Aerospace Laboratory, Chofu Airfield, Tokyo Japan. September 14, 1999.

144. E. Lara-Curzio, "Stress-Rupture and Stress-Relaxation Behavior of Carbon Fiber-Reinforced SiC CFCCs," **Invited Presentation** at National Aerospace Laboratory, Chofu Airfield, Tokyo Japan. September 14, 1999.

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148. E. Lara-Curzio, "Reliability of Continuous Fiber-Reinforced Ceramic Composites under Stress-Rupture Conditions in Oxidizing Environments," Proceedings of International Conference on Recent Developments in Durability Analysis of Composite Systems, Brussels, July 11-14, 1999.

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163. K. L. More, P. F. Tortorelli, H. T. Lin, E. Lara-Curzio, and R. A. Lowden, "Degradation of BN Interfaces in CFCCs," 1998 Fall Meeting, The Materials Research Society, Boston, MA November 30, 1998.

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167. P. F. Tortorelli, E. Lara-Curzio, C. G. McKamey, B. A. Pint, I. G. Wright, and R. R. Judkins, "Evaluation of Iron Aluminides for Hot-Gas Filter Applications," Symposium on High-Temperature Particulate Cleanup for Advanced Coal-Based Power Systems, " Birmingham, AL April 21, 1998.

168. E. Lara-Curzio, "Life Prediction of CFCCs under Stress-Rupture Conditions," Presented at 22nd Annual Cocoa Beach Conference and Exposition, Cocoa Beach, Florida January 20-24, 1998.

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170. E. Lara-Curzio, "Effect of Overstress on the Reliability of Continuous Fiber Ceramic Composites under Stress-Rupture Conditions," Presented at 22nd Annual Cocoa Beach Conference and Exposition, ITAR Restricted Sessions, Cocoa Beach, Florida January 25-30, 1998

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172. E. Lara-Curzio, "A Model of the Oxidation-Induced Stress-Rupture of Ceramic Matrix Composites with Carbonaceous Fiber Coatings," **Invited Presentation**

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## Other Relevant Publications:

1. R. A. Lowden, E. Lara-Curzio, M. K. Ferber, G. Hsueh, and A. Wereszczak, pp. 26-29, in M. H. Rawlins, R. A. Lowden and M. A. Karnitz (compilers) *Continuous Fiber Ceramic Composites Program, Task 2 Bimonthly Progress Report for February-March, 1993.*
2. E. Lara-Curzio, and M. G. Jenkins, pp. 30-38, in M. H. Rawlins, R. A. Lowden and M. A. Karnitz (compilers) *Continuous Fiber Ceramic Composites Program, Task 2 Bimonthly Progress Report for February-March, 1993.*
3. C. H. Hsueh, E. Lara-Curzio, R. A. Lowden, M. K. Ferber, pp. 27-32, in M. H. Rawlins, R. A. Lowden and M. A. Karnitz (compilers) *Continuous Fiber Ceramic Composites Program, Task 2 Bimonthly Progress Report for April-May, 1993.*
4. E. Lara-Curzio, and M. G. Jenkins, pp. 33-36, in M. H. Rawlins, R. A. Lowden and M. A. Karnitz (compilers) *Continuous Fiber Ceramic Composites Program, Task 2 Bimonthly Progress Report for April-May, 1993.*
5. R. A. Lowden, M. K. Ferber, E. Lara-Curzio, G. Hsueh and K. L. More, pp. 28-30, in M. H. Rawlins, R. A. Lowden and M. A. Karnitz (compilers) *Continuous Fiber Ceramic Composites Program, Task 2 Bimonthly Progress Report for August-September, 1993.*
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10. E. Lara-Curzio, and M. G. Jenkins, pp. 51-58, in M. H. Rawlins, R. A. Lowden and M. A. Karnitz (compilers) *Continuous Fiber Ceramic Composites Program, Task 2 Bimonthly Progress Report for December-January, 1994.*
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