BIBLIOGRAPHY
CARLOS FERNANDEZ-PELLO

I. REFEREED PUBLICATIONS

A. Archival Journals


88. A. B. Dodd, C. Lautenberger, C. Fernandez-Pello “Computational Modeling of Smolder Combustion and Spontaneous Transition to Flaming Combustion and Flame (accepted) 2010


B. Conference and Symposium Proceedings


32. S.D. Tse and A.C. Fernandez-Pello, "Some Observations of Two-dimensional Smoldering and the Transition to Flaming" *Proceedings of the Eighth International Symposium on*


100. A.B. Dodd, C. Lautenberger, O. Putzeys and C. Fernandez-Pello "Examination of the Spontaneous Transition from Smoldering to Flaming: Comparison of Simulations and Experiments", Interflame 2010, Nottingham, UK, July 5-7 (2010)


II. BOOKS AND BOOK CHAPTERS

A. Books


B. Book Chapters


III. NON-REFEREED PUBLICATIONS

A. Conference and Symposium Proceedings


76. R. Anthenien, D. Walther, and A.C. Fernandez-Pello, “An Experimental Study of Smolder Ignition of Polyurethane Foam,” Paper No. 95F-175, 1995 Fall Meeting, Western States Section/ The Combustion Institute, Stanford University, Stanford, Ca, October 30-31, 1995.


IV. INVITED LECTURES, PAPERS AT MEETINGS AND SEMINARS


27. "Flame Spread Mechanisms," Department of Reaction Chemistry, University of Tokyo, Japan, June 1983.


34. "Ignition of Premixed Gases by Cylindrical Surfaces," Madrid University, Spain, March 1985.


60. "Combustion in Microgravity," series of seminars given at the University of Barcelona and Girona, Spain, April 1993.


75. "Smoldering Combustion in Microgravity" Royal Academy of Sciences of Spain, Madrid, Spain, Jun. 1995


78. "Ignition and Flame Spread Over a Solid Combustible" E. T. S. Aeronautical Engineering, Madrid University, Madrid, Spain, January 1996


81. ‘Smoldering Combustion Experiments in Microgravity” Poster Presentation, Twenty-Sixth Symposium (International) on Combustion, The Combustion Institute, Naples, Italy, August 3 1996 (with D. Walther and D. Urban)

82. “Combustion in Reduced Gravity” Meeting of the Berkeley Chapter of Pi Tau Sigma, Berkeley, CA, October 1, 1996

83. “Combustion in Reduced Gravity” Meeting of the Berkeley Chapter of the ASME, Berkeley, CA, October 30, 1996

84. “Fired up in Space” Invited Presentation at the Fall Membership Meeting, Berkeley Engineering Alumni Society, Commerce, CA, November 13, 1996


88. “Combustion in Reduced Gravity” MEL, Hitachi, Tsichiura, Japan, July 13, 1998


90. “ MEMS Wankel Internal Combustion Engine” Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, November 16, 1998


94. “Fired up in Space” Cal Day, Berkeley, CA, April 17, 1999

95. “Issues and Opportunities in MEMS Thermosciences Systems” School of Engineering, University of California, Irvine, April 22, 1999

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98. “MEMS Rotary Internal Combustion Engine” DARPA, MEMS, PI Meeting, Atlanta, GA, January 14, 2000


100. “MEMS Rotary Internal Combustion Engine” Chevron Research, Richmond, CA, April 26, 2000


104. “An Application of the Enthalpy-Temperature Hybrid Method to Predict Polymer Pyrolysis and Ignition” II International Workshop on Combustion Modeling, Veracruz, Mexico, February 24, 2001 (with Y.Y. Zhou)


113. “MEMS Rotary Engine” Pi Tau Sigma Second general meeting, Department of Mechanical Engineering, U.C. Berkeley, March 20, 2002


117. "MEMS Rotary Engine” Hitachi, Mechanical Engineering Laboratories, Tsichiura, Japan, August 6, 2002


120. "MEMS Rotary Engine Power System" Invited Presentation, Power MEMS 2002, Tsukuba, Japan, November 12, 13, 2002

121. "MEMS Rotary Engine Power System" IHI Basic Research Laboratories, Yokohama, Japan, November 15, 2002

122. “Micro-scale Combustion for Power Generation” COE Symposium on Innovation in Mechanical Engineering, Tokyo University, Tokyo, March 7-9, 2004


126. “Combustion in Reduced Gravity” ASME Berkeley Student Chapter Annual meeting, U.C. Berkeley, CA, Nov 17 2004


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140. “Modeling Microgravity Flame Spread Rates over Samples of Polymer and Polymer/Glass Composites” Poster presentation 31st Symposium International on Combustion, Heidelberg, Germany, August 6-11, 2006 (with McAllister, S., Rich, D., Lautenberger, C, and Yuan, Z.G

141. “Solid Propellant Micro-Thruster” International Mechanical Engineering Congress & Exposition (IMECE), Chicago, Il, November 5-10, 2006. (with E. Parra and K. Pister)


143. "The Use of Genetic Algorithms to Determine the Parameters Controlling Composites Ignition" Second International Fire Bridge Conference, Belfast, Northern Ireland, UK, May 9-11, 2005 (with Lautenberger, C.)


145. “Trajectory and Combustion of Embers as Origin of Wild-land Spot Fires” Colloque
Scientifique International “Stopfeux”, IUSTI-Polytech’Marseille, France, May 12, 2006 (with Anthenien, R)


148. “Development of Small-Scale Internal Combustion Rotary Engines” Department of Mechanical Engineering, University of Illinois at Urban-Champaign, Feb 27, 2007

149. “Generalized Pyrolysis Model for Combustible Solids” 2007 Annual Fire Research Conference, NIST, Gaithersburg, MD, April 4, 5, 2007 (with C. Lautenberger)


155. “Modeling Wildland Fire Development” Seminar Series, Department of Mechanical Engineering, University of California, Berkeley, CA, October 22, 2008


156. “Smart Combustion Sensor Technology”. Poster presentation KAUST Meeting, University of California, Berkeley, January 2009 (with A. Pisano)
156. “Modeling Wildland Fire Propagation and Spotting” The University of Edinburgh, Scotland, UK March 27, 2009


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