BIBLIOGRAPHY
CARLOS FERNANDEZ-PELLO

I. PEER REVIEWED PUBLICATIONS

A. Archival Journals


https://doi.org/10.1016/j.firesaf.2016.09.004


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B. Conference and Symposium Proceedings


100. S. Fereres, C. Lautenberger, C. Fernandez-Pello, D. Urban and G. Ruff “The Effect of Environmental Pressure on the Mechanisms Controlling the Piloted Ignition of Combustible


120. S. Olson, P. V. Ferkul, C. Fernandez-Pello, F. J. Miller, S. Bhattacharjee, I Wichman and J. S. T’ien “Flammability Limits from BASS-II Testing in Microgravity Compared to Normal
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124. D. Urban et al. “Preliminary Results from Saffire IV and V Experiments on Large Scale Spacecraft Fires” 50th International Conference of Environmental Systems (ICES), Lisbon, July 12-15 2021 (on line)


II. BOOKS AND BOOK CHAPTERS

A. Books


B. Book Chapters


III. NON-REFEREED PUBLICATIONS

A. Conference and Symposium Proceedings


43.


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.


152. C.D. Zak, J. Urban and A.C. Fernandez-Pello "Ignition Behavior of Powdered Cellulose by Hot Steel Spheres" 8th US National Meeting of the Combustion Institute, Salt lake City, UT, May 20-22, 2013


155. J.J. Jones, H. Qian, C. Fernandez-Pello “Application of the Fire Dynamics Simulator CFD Code for Understanding the Physical Processes within a Biomass Cookstove” 2013 Fall
Technical Meeting, Western States Section/Combustion Institute, Colorado State University, Fort Collins, CO, October 7-8, (2013).


IV. PRESENTATIONS 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 Micrograviy" 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

96. “Issues and Opportunities in MEMS Thermosciences Systems” Department of Applied Mechanics and Engineering Sciences, University of California, San Diego, June 3, 1999


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)


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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 Generataion” 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


133. “Effect of Initial Pressure, Temperature, and Chamber Size on Pressure Rise in Reduced Scale IC Engine Combustion Chamber” Power MEMS 2004, Tsukuba, Japan, November, 2004 (with Y. Tsuji, B. Sprague, D. Walther, and A. Pisano)


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


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)


158. “Modeling Wildland Fire Propagation and Spotting” Seminar on Forecasting and Modeling Wildfire Risk for UK Moorlands and Heaths, The University of Manchester, Manchester, UK March 31-April 1, 2009 (with C. Lautenberger)

159. “Modeling the Transition from Smoldering to Flaming” 11th Journees du GDR Incendie” CSTB-Champs sur Mare, France, June 17,18 2010 (with A. Dodd and C. Lautenberger)


162 “Mechanisms of Solid Fuel Combustion” Hitachi Lab, Hitachi City, Japan, December 7, 2011


165. “Wildland Fire Spotting Ignition and Propagation” Jacob’s School of Engineering, University of California San Diego, May 14, 2012
166. “On the Mechanisms of Ignition” Institute di Motori, Naples University, Italy, June 5, 2012


168. “Mechanisms of Fuel Ignition” Tohoku University, Sendai, Japan, June 28, 2012


171. “Hot Metal Particle Ignition” 7th Annual Wildland Fire Litigation Conference, Monterrey, CA, April 19-21, 2013

172. “Micro-Power Generation” Short Course, Dipartimento di Ingegneria Industriale, Università degli Studi di Napoli Federico II. Naples, Italy, April 29-May 4, 2013


174. “Spot Fire Ignition of Cellulose Fuel Beds by Hot Metal Particles” NIST, Gaithersburg, MD, December 11, 2013


176. “Piloted Ignition of Clear and Black PMMA Cylinders” Poster Presentation 35th International Symposium on Combustion, San Francisco, CA August 3-8, 2014 (with S. Link)


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181. “Flame Spread over Insulated Wires: the Role of Insulation Melting and Core Conductivity”  

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A. Rodriguez, X. Huang*, S. Link, S. Olson, P. Ferkul)

183. “Spot Fire Ignition in Wildland-Urban Interface” FCE Distinguished Lecture, Hong Kong  
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184. “Flammability of Materials in Spacecraft Environments” Invited Seminar, Department of  
Fire Protection Engineering, University of Maryland, MD, March 1, 2019

185. “Fundamentals of Solid Fuel Combustion” APCISS-1 Vina del Mar, Chile, November 2019

186. “Emissions from Internal Combustion Engines”, Lecture at the Escuela de Ingenieria y  
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187. “Wildland Fire Spot Ignition by Metal Particles and Firebrands” 2021/22 Fluid Mechanics  
Seminar Series, Department of Aero Eng. and Eng. Mechanics, University of Texas at  
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Ciencias, ITESM, Puebla, Mexico, November 17, 2021

189. “Material Flammability (Ignition, Spread, Suppression) in Space Exploration Atmospheres”  
Joint CAE/ESA/JAXA/NASA ISS Increment 66 Science Symposium, (on line) 14-16  
December 2021