The ACME publications and presentations are listed by experiment after the listing for general material on the project as a whole.

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**ACME** (general to the project) – *as of January 2016*

**Conference Papers** (full papers, acceptance based on abstract)


**Conference Presentations and Posters** (only abstract required)


Gravitational and Space Research and 5th International Symposium for Physical Sciences in Space, Orlando, FL, 3-8 Nov., 2013.


Burning Rate Emulator (BRE) – as of January 2016

Refereed Journal Articles

3. Y. Zhang, M. Kim, P.B. Sunderland, J.G. Quintiere, J. de Ris, A Burner to Emulate Condensed Phase Fuels, Experimental Thermal and Fluid Science, accepted.


Conference Proceedings and Posters


**ACME Publications to Date**

2016-JAN-28

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**Theses**


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**Coflow Laminar Diffusion Flame (CLD Flame) – as of Oct. 2015**

*Note that this section includes publications, presentations, etc. with results from the CLD Flame precursor, Structure & Liftoff In Combustion Experiment (SLICE), which was conducted on the International Space Station (ISS) in early 2012. Papers, etc. which include ISS results from the SLICE experiment have been identified.*

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**Peer-Reviewed Journal Papers**


**Includes ISS Results from SLICE**


Conference Proceedings and Posters


Includes ISS Results from SLICE


Includes ISS Results from SLICE


Includes ISS Results from SLICE


Includes ISS Results from SLICE


**Includes ISS Results from SLICE**


**Includes ISS Results from SLICE**


**Ph.D. Dissertations**


**Includes ISS Results from SLICE**


Electric-Field Effects on Laminar Diffusion Flames
(E-FIELD Flames) - as of August 2015

GRADUATE STUDENTS

Ph.D. Dissertations


M.S. Theses

B.44 Tsai, H.-J. (2011) “Attempts to Model Electrical Field Effects on Flames.” (project)
B.51 Kong, S. (2013) “Studying the Temperature Profile of a Flame-Heated Plate using Solidworks.” (project)
B.59 Ricchiuti, V. (expected 2015) “CFD of Electrically Active Flames using Open FOAM.”
Visiting Researchers


C.11 Kiyotaka Yamashita, Post Doctoral Scientist, University of Tokyo, summer 2008 – Numerical Simulation of Electric Effects in Diffusion Flames

C.13 Julian Glorian, Universite D’Orleans, France – Engineering Degree student 2011 – Computational study of ions and excited state species in a methane/air laminar diffusion flame

C.26 Albert Aguilera Roman, Universitat Politècnica de Catalunya, Terrassa, Engineering Degree student 2014/2015 -- Relating CH* Chemiluminescence to Charged Species in a Nonpremixed Methane Flame

D.2 Benjamin Debareix, ISAE, ENSMA, France – Engineering Degree student 2011 (no formal report) – Open FOAM Computation of Jet Diffusion Flame Impinging on a Surface

D.3 Mishal Francis, University of Glasgow -- Intern student 2011/2012 -- IR detection of electrical effects on small diffusion flames

D.4 Joshua Jacobs, University of Glasgow -- Intern student 2011/2012 -- Soot imaging in small diffusion flames

D.26 Pierre Lemarie, ENSMA, 2014: Laser spectroscopy for combustion diagnostics

INVITED TECHNICAL LECTURES

- Louisiana State University Seminar – Electrical Actuation of Small Diffusion Flames, April 4, 2014
- UCLA Mechanical Engineering Departmental Seminar -- Using Old Fuels in New Ways and New Fuels in Old Ways, December 11, 2009
- UCI MAE Departmental Seminar -- Recent Research in the Lasers, Flames, and Aerosols Laboratory, October 14, 2009
- NASA Glenn Research Center, Cleveland, Ohio – Electric Field Effects in a Small Co-Flow Diffusion Flame (with S. Karnani), May 21, 2009
- University of Hawaii, Honolulu, HI, “Flame and Corona Ion Driven Winds,” October 19, 2007
• National Cheng-Kung University, Tainan, Taiwan – Control of Ion Winds from Flames and Corona Discharges, March 23, 2006.

• Interdisciplinary Transport Phenomena in Microgravity and Space Sciences IV, Tomar, Portugal – Using Large Electric Fields to Control Transport in Microgravity, August 11, 2005

• California Institute of Technology – Characterizing Ionic Winds from Flames and Corona Discharges, February 25, 2005.

• University of Southern California, Los Angeles, California – Electric Field Manipulation of Flames: and other tales of combustion control, March 7, 2001

PUBLICATIONS

Refereed Publications


Refereed Conference Proceedings (full peer-review)


Conference Papers (full papers, acceptance based on abstract)


D.63 Rickard et al. (2003) “Ionic Wind as a Controllable Air Source for an Electric Burner,”
Western States Section/The Combustion Institute Fall Meeting, UCLA, October 20–21.


Conference Papers (only abstract required)


Other Publications


Flame Design - as of August 2015

Peer-Reviewed Journal Papers


**Theses and Dissertations**


**Conference Proceedings and Posters**


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Combustion Institute, Edinburgh (2000).


Awards


Structure and Response of Spherical Diffusion Flames
(s-Flame) - as of January 2016

Peer-Reviewed Journal Papers


Conference Proceedings and Posters


**Theses and Dissertations**

S. W. Yoo, PhD ’06, “On the structure and dynamics of stationary and rotating spherical
diffusion flames," Staff researcher, GE Aviation, Cincinnati
