



The Combustion Institute

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Janet L. Ellzey

2018 Candidate Profile: The Combustion Institute Board of Directors

Reasons for Nomination

I am honored to be considered for The Combustion Institute Board. The Combustion Institute has been my primary professional organization since I joined while a graduate student at the University of California-Berkeley in the early 1980s. Since then I have participated actively in U.S. regional and national meetings and the international symposia through presentation of research papers, reviewing papers, and chairing sessions. I launched Women in Combustion (WiC) in 2007 and organized workshops at the Montreal, Beijing, and San Francisco symposia as well as WiC receptions at regional, national, and international meetings. I would bring to the Board my experience as an active participant and researcher in the institute as well as extensive budgetary and logistical experience gained from my administrative positions at the University of Texas. As a leader and administrator, I am a consensus builder and value input from all constituents. I am committed to the institute as the premier organization worldwide for researchers in combustion. I will work with other members of the Board to maintain and grow its membership, seek new opportunities for sponsorship, develop pathways to mentor all of our young members, and embrace new technical challenges in the field.



Janet L. Ellzey

See the next page for the candidate's curriculum vitae.

JANET L. ELLZEY, PHD, PE
PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING
ENGINEERING FOUNDATION CENTENNIAL TEACHING FELLOW
UNIVERSITY OF TEXAS AT AUSTIN

EDUCATION

Mechanical Engineering	Ph.D.	University of California at Berkeley	1985
Mechanical Engineering	M.S.	University of Texas at Austin	1980
Mechanical Engineering	B.S.	University of Texas at Austin	1978

CURRENT AND PREVIOUS POSITIONS

Assistant, Associate, and currently Professor	University of Texas at Austin	1990-pres
Staff Scientist	Naval Research Laboratory, Wash.D.C.	1987-90

LEADERSHIP POSITIONS (University of Texas)

Vice Provost for International Programs	University of Texas at Austin	2009-2017
Assistant Dean for International Engineering	Cockrell School of Engineering	2007-09
Associate Director for International Studies	Chair of Free Enterprise	2004-09

SELECTED RECENT PAPERS

- P.R. Radyjowski, S.R. Newcomb, J.L. Ellzey, "Design of complex reactors using additive manufacturing," 10th U.S. National Combustion Meeting, College Park, MD April 23-25 2017.
- E. Belmont, T. Ombrello, M. Brown, C. Carter, J. Ellzey, "Experimental and Numerical Investigation of Freely Propagating Flames Stabilized on a Hencken Burner," *Comb. Flame* (162) pp.2679-2685, 2015.
- E.L. Belmont, P.P. Radyjowski, and J.L. Ellzey, "Effect of geometric scale on heat recirculation and syngas production in a non-catalytic reformer", *Combust. Sci. Tech*, 2014.
- M. Toledo, F. González, J. Ellzey, "Hydrogen Production from Methanol and Ethanol Partial Oxidation," *Energy and Fuels*, 28, pp.3453-3459, 2014.
- E.L. Belmont and J.L. Ellzey, "Lean Heptane and propane combustion in a non-catalytic parallel-plate counter-flow reactor. *Comb. Flame* (161) pp. 1055-62, 2014.
- C.H. Smith, D.I. Pineda, C.D. Zak, and J.L. Ellzey, "Conversion of Jet Fuel and Butanol to Syngas by Filtration Combustion," *J. Hydrogen Energy* (38), pp. 879-889, 2013
- C.H. Smith, D.I. Pineda, and J.L. Ellzey, "Syngas Production From Burner-Stabilized Methane/Air Flames: The Effect of Preheated Reactants", *Comb. Flame* (160) pp. 557-564, 2013.
- E.L. Belmont, I. Schoegl, and J.L. Ellzey, "Experimental and Analytical Investigation of Lean Premixed Methane/Air Combustion in a Mesoscale Counter-flow Reactor", *Proceedings of the Combustion Institute* (34) pp. 3361-3367, 2013.
- E.L. Belmont, S. Solomon, and J.L. Ellzey, "Syngas Production from Heptane in a Non-catalytic Counter-flow Reactor," *Comb. Flame*, 159, 3624-3631, 2012

RECENT HONORS AND AWARDS

- Fellow of the Combustion Institute 2018
- University of Texas Department of Mechanical Engineering Distinguished Alumni 2011
- International Award for Innovative Practices in Higher Education for Projects with Underserved Communities, University Design Consortium, Arizona State University, 2010.
- Best Paper Award, 2nd International ASME Conference on Energy Sustainability, 2008
- Women in Engineering Student Advocate Award, 2005
- Engineering Foundation Centennial Teaching Fellowship, 2003-pres.
- Engineering and Physical Sciences Research Council Research Fellow in the UK, 2001

RECENT COMBUSTION INSTITUTE SERVICE

- Launched Women in Combustion in 2007
- Organized WiC coffee hours and receptions at regional, national, and international meetings
- Organized WiC Workshops for Women in Combustion at symposia in Montreal, Beijing, and San Francisco