





## CONFERENCE ABSTRACTS & PRESENTATIONS

- [11] J. D. Rhodes, **W. J. Cole**, C.R. Upshaw, T. F. Edgar, M. E. Webber “Analysis of Temporal Seasonal Residential Demand Profiles” ASME International Mechanical Engineering Congress & Exposition, San Diego, CA, 2013.
- [10] **W. J. Cole**, J. D. Rhodes, W. Gorman, M. E. Webber, T. F. Edgar, “Community-scale residential air conditioning control for effective grid management” AIChE Annual Meeting, San Francisco, CA, 2013.
- [9] C. R. Touretzky, **W. J. Cole**, A. Novoselac, M. Baldea, T. F. Edgar, “Reduced-order modeling strategies for optimal energy management in buildings” Intelligent Building Operations Workshop, Boulder, CO, 2013.
- [8] A. Sriprasad, **W. J. Cole**, T. F. Edgar, “Managing Economic Uncertainty in a Smart Grid Environment” AIChE Spring Meeting, San Antonio, TX, 2013.
- [7] J. Hedengren, **W. J. Cole**, T. F. Edgar, K. M. Powell, “BPOPT:MINLP Solver for Differential Algebraic Systems with Benchmark Testing” INFORMS Annual Meeting, Phoenix, AZ, 2012.
- [6] **W. J. Cole**, J. D. Rhodes, T. F. Edgar, “Analysis of District Cooling with Combined Heat and Power” TWCCC Fall Meeting, Madison, WI, 2012.
- [5] **W. J. Cole**, A. Novoselac, T. F. Edgar, “Analysis of Thermal Energy Storage Systems for a Smart Energy Environment” TWCCC Spring Meeting, Austin, TX, 2012.
- [4] T. H. Fletcher, **W. J. Cole**, M. H. Dennis, J. Chong, D. R. Weise, “Observations of Burning Bush Behavior as a Function of Wind and Moisture Content” 24<sup>th</sup> Annual ACERC Conference, Provo, UT, 2010.
- [3] B.T. Andersen, **W. J. Cole**, T. H. Fletcher, D. R. Weise, “Modeling a Burning Bush with and without Wind Using a Semi-empirical Approach” 24<sup>th</sup> Annual ACERC Conference, Provo, UT, 2010.
- [2] **W. J. Cole**, M. H. Dennis, T. H. Fletcher, D. R. Weise, “The Effects of Wind on the Flame Characteristics of Individual Leaves” Western States Section of the Combustion Institute Fall Meeting, Irvine, CA, 2009.  
\*Also given at the 24<sup>th</sup> Annual ACERC Conference, Provo, UT, 2010.
- [1] **W. J. Cole**, B. M. Pickett, T. H. Fletcher, D. R. Weise, “A Semi-empirical Model of Fire Spread through a Manzanita Shrub” 6<sup>th</sup> National Meeting of the U.S. Combustion Institute, Ann Arbor, MI, 2009.  
\*Also given at the 23<sup>rd</sup> Annual ACERC Conference, Provo, UT, 2009.

## GRANTS

- [2] National Science Foundation Graduate Research Fellowship Program (GRFP) Fellowship, “Dynamic Modeling and Optimization of Integrated Energy Systems in a Smart Grid Environment,” 2012-2015, **W. J. Cole** (PI), \$121,500.
- [1] The University of Texas at Austin Green Fee Program, “Optimization of the Campus Cooling System to Reduce Energy Usage” 2011-2012, K. M. Powell (PI), T. F. Edgar, K. Kuretich, **W. J. Cole**, R. Thompson, J. Hedengren, K. Kapoor, J. Mojica, A. Sriprasad, J. Kim (co-PI’s), \$36,930.

## AWARDS & HONORS

- National Science Foundation Graduate Research Fellowship Program (GRFP) Fellowship
- Ford/Herring Endowed Graduate Fellowship in Engineering
- Heritage Scholarship (Full Tuition) and Robert C. Byrd Scholarship (2/3 Tuition)
- Outstanding Undergraduate Research Assistant Award
- Outstanding Sophomore, Junior, and Senior Awards
- 1<sup>st</sup> Place Process Design Award from BYU Chemical Engineering