



Selina C. Ferguson

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BIO:

Ms. Selina C. Ferguson is currently pursuing a Ph.D. in Mechanical Engineering. Her current research is investigating how moisture from live vegetation affects the characteristics of wildland fires using CFD modeling. She is also focusing on how moisture affects ignition time using different methods of heating. She is currently funded by the U.S. Forest Service, Department of Agriculture.

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RELEVANT PUBLICATIONS:

1. Ferguson, S., Yashwanth, B. L., Shotorban, B., Mahalingam, S., and Weise, D. R. (2013) "Numerical investigation of influence of initial moisture content on thermal behavior of heated wood." Proceedings of the 8th U. S. National Combustion Meeting. May 19-22, 2013, Park City, Utah, USA.
2. Ferguson, S. C., Dahale, A., Shotorban, B., Mahalingam, S., and Weise, D. R. (2013) "The role of moisture on combustion of pyrolysis gases in wildland fires." Combustion Science and Technology, 185(3), 435-453.
3. Dahale, A., Ferguson, S., Shotorban, B., and Mahalingam, S. (2013) "Effects of distribution of bulk density and moisture content on shrub fires." International Journal of Wildland Fire.
4. Dover, S., Dahale, A., Shotorban, B., Mahalingam, S., and Weise, D. (2011) "Influence of vegetation moisture on combustion of pyrolysis gases in wildland fires." Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition IMECE2011. November 11-17, 2011, Denver, Colorado, USA.
5. Dahale, A., Dover, S., Shotorban, B. and Mahalingam, S. (2011) "Effects of crown fuel bulk density distribution and thermophoresis of soot particles on wildland fires." Proceedings of the ASME 2011 International Mechanical Engineering Congress & Exposition IMECE2011. November 11-17, 2011, Denver, Colorado, USA.