

Joshua D. Swann, Ph.D. student
Biography

Josh Swann is a Ph.D. student in the Department of Fire Protection Engineering at the University of Maryland, College Park; the same school where he earned a B.Sc. in Fire Protection Engineering (2014). His current work, under the guidance of Dr. Stanislav Stoliarov, focuses on the effects of char growth dynamics on the pyrolysis of charring and intumescent polymers. The results from this experimental work will enable a better understanding of the thermal degradation physics of the 0.07 m diameter pyrolyzing samples. Further analysis of these experiments will be used to create thermal transport sub-models that will integrate into ThermaKin2D, a condensed-phase pyrolysis model created by Dr. Stoliarov.