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**Refinement of Production Grade Biodiesel** KEN MCGILL, CAMPBELL AXT, SYDNEY NINNEMAN, ROBERT HUGHLY, JILLIAN TURNER, Georgia College State Univ — The modified Burton method for the thermal hydrogen-cracking of peanut oil has been investigated in the McGill Research Group since 2009. The successful and reliable production of biodiesel has been achieved since 2014. A hydrocarbon with viscosity similar to Production Grade Diesel will work in modern diesel engines. The current product has a viscosity significantly lower than production grade diesel. The starting material has a viscosity significantly higher than Production Grade Diesel. Current research is investigating methodologies to mix starting material and product to achieve target viscosity.

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