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## International Conference on

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Our previous work demonstrated that supercritical methanol o ers key advantages over the traditional, based method to convert waste fats into biodiesel. is work established that supercritical transesteri cation of minutes in the absence of catalysts. e use of supercritical methanol in the transesteri cation reaction of advantages including fast reaction times, catalyst free reactions, and minimal pre-processing of the fat. Recent scale supercritical ow reactor was assembled from o -the-shelf components and its suitability tested for the traditional fat to biodiesel. Initial data indicate an exponential increase in product yields between 240°C and 420 times of 5 and 30 minutes, respectively, with an approx. ten-fold higher yield for the latter reaction time. e product clean and consist of the fatty acid methyl esters (FAME) of mostly C16- C18 carboxylic acids. is suggests temperatures (420°C) are needed and suited for the rapid conversion of alligator fat to biodiesel using supercritical method to each supercritical method to exponential increase in product yields between 240°C and 420°C and 420°C and 420°C and 30°C and

## Biography

August A Gallo earned his PhD in Organic Chemistry from Vanderbilt University (Nashville, TN) and was a Postdoctoral scholar at the University of California, San Franciso Medical Center in the Department of Pharmacuetical Chemistry. Presently, he is a Professor of chemistry at The University of Louisiana, Lafayette, whe he has been since being promoted through the academic ranks since 1981. He has published more than 30 papers in reputed international journals, he has been awarded nearly \$400,000 in grants, and he has been serving as a Reviewersal Journal of Chemistry and Chemosphere

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