

## **A REVIEW OF VEGETABLE OIL RESEARCH AT PENN STATE**

**Kraipat Cheenkachorn, Kimberly Wain, Waleska Castro, Wallace Lloyd,  
and Joseph M. Perez**

Pennsylvania State University

### **ABSTRACT**

This presentation will review current projects at Pennsylvania State University on the use of vegetable oils as fuels, hydraulic fluids, and engine oils. Research is being conducted on such alternative fuels as B100, B20, and VPO B20. A hydraulic fluid project to convert farm and construction equipment

on campus will be described as will efforts to develop high- temperature lubricants and next-generation lubricants containing minimal sulfur and phosphorus. Studies of the effect of coatings on friction, wear, and deposits will be discussed.