

Break out group name: **Conversion and Coproducts – BIODIESEL**

- **Identify problem areas for Action Plan**

Conversion of alternative feedstocks: new crops and nontraditional sources (W, p)
New technologies (catalysis, fractionation) to optimize process economics (W)
Fuel quality, including low-temperature issues, hydrolytic and oxidative stability, minor constituents (P, w)
Quality assurance: Development of methods for official standards and field testing (W, P)
Value-added uses and quality issues of coproducts (such as valorisation of glycerol and protein coproducts) (W, P)
<i>In partnership with extramural institutions...</i>
Life cycle analysis
Compatibility with modern diesel fuels and engines: perf. and emissions
Performance and emissions for off-road applications
Energy uses for intact glycerides

- **Identify teams and team leaders to write portions of the Action Plan**

(W) Haas, Wyatt, Foglia, Ashby, Solaiman, Marmer. Lead: Haas
(P) Dunn, Knothe, Moser, Jackson, Erhan. Lead: Dunn

- **Identify ARS locations involved**

Wyndmoor (W)
Peoria (P)

- **Identify links to other ARS national programs**

306: Quality and Utilization of Agricultural Products
301: Plant Genetic Resources, Genomics, and Genetic Improvement (new crops, incl. oil crops)
302: Plant Biological and Molecular Processes
101: Food Animal Production for animal nutrition (maintenance of feed quality)
203: Air Quality
204: Global Change

- **Identify external partnerships**

National Biodiesel Board
Fats and Proteins Research Foundation (FPRF)
National Renderers Association
United Soybean Board
American Soybean Association
NREL/DOE
EPA
Academia
Defense, Interior
Private Sector
Engine Manufacturers Association
International, local, state agencies
Other USDA, incl. ERS and Office of the Chief Economist (Office of Energy and New Uses)