

**Customer Breakout Session II: 8:50-10:00 AM, Wednesday, September 19, 2007**

Group:	Conversion & Coproducts
Facilitator:	Bill Orts
Recorder:	Bob Matteri, Nancy Nichols
Presenter:	Nathan Fields

<b>Recommended Sub-Components (in priority)</b>	<b>Relative Weight</b>
<b>Research Priorities</b>	
Platform alignment: densification of feedstock, pretreatment, biocatalysts—SSF v. fractionation; Improved process efficiencies in traditional systems; Pretreatment of diverse feedstocks to feed into a single process	50
Life cycle analysis: on-farm v. large scale; fundamental economic sustainability; environmental/energy/water; Cost engineering of various processes	40
Multiple process technologies (enabling technologies, conversion of alternative feedstocks)	40
Thermochemical Conversion including flexible inputs	40
Biodiesel: analytical testing and quality assurance; improved performance properties including cold flow & oxidation stability; compatibility w/modern engines	40
On-farm and local pre-processing technologies (combine w/harvest?); centralized v. distributed conversion; conversion of livestock waste	30
Feed, non-feed, and non-fuel co-products (DDGS quality & use; DDGS standards); glycerol conversion to new products	30
Process integration (thermochemical w/biochemical)	20
<b>Partnerships:</b>	
EPA—esp. lifecycle	
NSF	
DOE	
Basic research	
REE—ERS, NASS, CSREES, NRCS	
Industry partners: private companies & trade associations	
International	
Universities	

For each sub-component, recommend research partnerships that ARS should continue or explore with external institutions (e.g., other Federal agencies, universities, National Labs, and/or industry) – please record on flipcharts