What have you learned at this workshop that has increased your confidence that thermochemical processing for biofuels and bioproducts will be commercialized in the Midwest?

- That cellulosic ethanol is not leading the way
- Very promising new technologies that are close to commercialization or ready for commercialization
- Agronomic practices can be improved by collecting/processing cellulosic material
  - Stover collection needed on some fields
  - Char addition improves soil/yields
- Verification of the process have been proven
- Increased my confidence: Nothing
- There is interest in the banking/financial community
- Thermochemical technologies are being piloted successfully today
What have you learned at this workshop that has increased your confidence that thermochemical processing for biofuels and bioproducts will be commercialized in the Midwest?

- Participation of Businesses & Chemists at this meeting
- Industrial development of thermochemical production units and willingness of companies to participate in research
- Low natural gas feedstock costs, abundant biomass, and ethanol has hit the blend wall
- More understanding among the links in the chain and technical advancements
- The willingness of all involved in the potential success of thermochemical processing
- The fact that a vast array of companies and individuals are working towards the same goal, that’s when things get done
What have you learned at this workshop that has increased your confidence that thermochemical processing for biofuels and bioproducts will be commercialized in the Midwest?

- The thermochemical Industry is moving toward commercialization and is robust enough to handle diverse feedstocks
- Updates from near-commercial conversion technology developers
- The degree of interest shown by industry and producers in exploring biomass production and conversion to biofuel
- The varied partnerships are encouraging in bringing this to fruition
- Learning the commercialization plans from the private sector companies
- Current interest of industry & technical knowledge already in existence
- Farmer cooperative interest in partnership & supplying
Roadmap to Commercialize Thermochemical Biofuels and Bio-products Processing in the Midwest Workshop

What have you learned at this workshop that has increased your confidence that thermochemical processing for biofuels and bioproducts will be commercialized in the Midwest?

- I think the disconnect between production agriculture (feedstock producers) and commercial conversion/processors was closed a bit. This is a conversion that needs to continue if we are to catalyze development of this industry.
- The issue is receiving significant attention across many industries.
- The focus on technology and commercialization by both Academia & Industry.
- Progress in technologies for conversion of biomass in fuel & other chemical products.
- Cooperative research is continuing.
What have you learned at this workshop that has increased your confidence that thermochemical processing for biofuels and bioproducts will be commercialized in the Midwest?

- Industry involvement and interest has increased significantly in the last decade. Processes have a clear vision for commercialization.
- The wide variety of technologies being investigated. The interest that the growers have in expanding their markets.
- Soil carbon can be managed and even increased while harvesting stover and/or perennial grassed for biomass feedstocks.
- Politics in Iowa are aligned to promote this, and the ability to increase crop yields is great.
What have you learned at this workshop that has increased your confidence that thermochemical processing for biofuels and bioproducts will be commercialized in the Midwest?

- At this workshop I have learned that;
  - Cellulosic ethanol will not have an attractive future
  - Biofuels in general, will face more economic & policy challenges over the next 10 years

- Lignocellulosic biomass will not be commercialized in the next 5 years. Problems to be solved:
  - Logistics (work directly with farmers)
  - Scale learning curve can be built using small scales
  - Consortium of suppliers should be built