

Plant Cell Wall Conversion Chemistry

**Leaders in – Cellulose, Hemicellulose, Lignin, Extractives - Chemistry
New Biomass Analytical Techniques**

Biomass to BioFuels Process Chemistry

- Fate of inorganics
- By products
- Value added green chemicals

Innovative Pretreatments for Conversion of Biomass

- BioEthanol
- BioButanol
- Pellets for BioPower

Ragauskas Biomass Studies

**Trace Contamination
Detection In
BioEthanol**

Fulbright Chair in Alternative Energy Biomass Conversion Team

**Catalytic Reductive,
Oxidative, Bio
Treatment of Lignin For:**

- Biogasoline
- Green Diesel

**Training and Workshops in the
Chemistry and Conversion of Biomass to Biofuels/BioPower**

**Biomass Pyrolysis Oils
Catalysts Development
Deoxygenation**

**Utilization of Plant Oils
Biolube Production**

**New Analytical Tools to
Investigate the Process
Chemistry of Biodiesel**