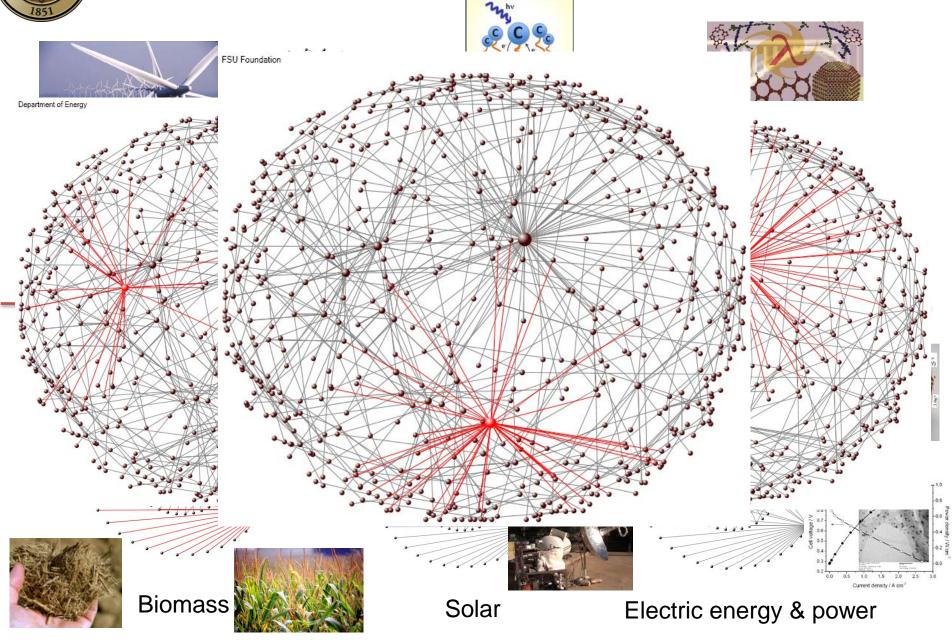
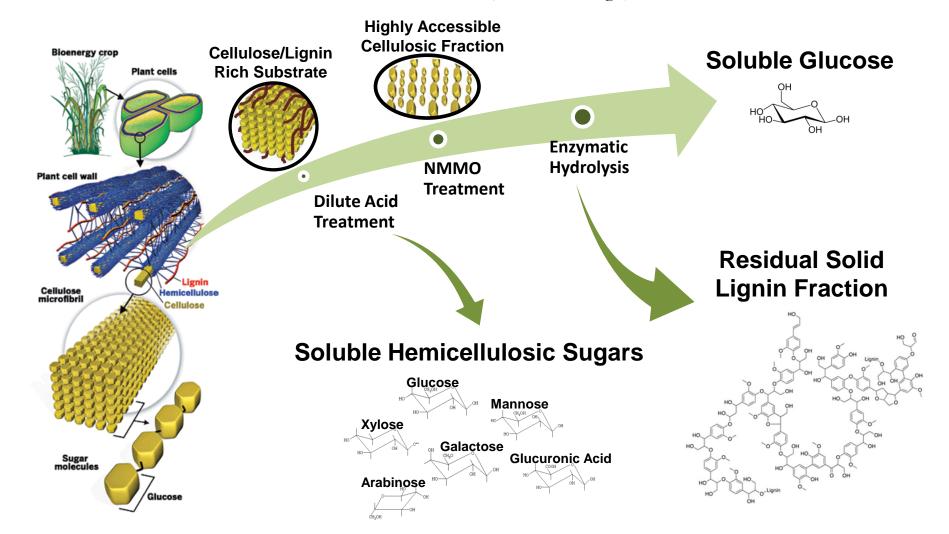
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FSU Research Network



Biomass to Biofuels Research

- **Objective**: To develop a biorefinery concept to produce biofuels and value added chemicals in an economic, efficient and continuous manner.
- S. Ramakrishnan, J. Telotte and J. Collier (Chem. Eng.)



Electric and Solar Energy Research

• Battery research (AME)

Materials synthesis, characterization, modeling, and

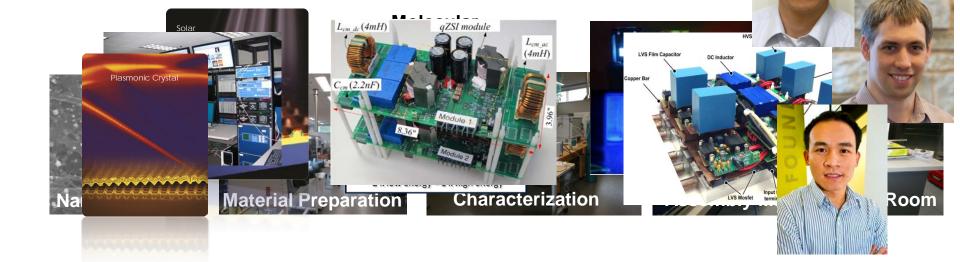
packaging

Power grids (CAPS)

- Control systems, hardware-in-the-loop

• Solar energy (Chem./Physics/Eng.)

- Photonic materials research



Wind Energy and Flow Control

- Steven Cook & Shawn Smith (COAPS), Mark Powell (NOAA)
- Physical based models predict loss (on average)
 of 2 turbines vs. prior prediction of 24 turbines
 - Rajan Kumar and Farrukh Alvi (Mech. Eng.)
 - Polysonic Wind Tunnel:
 - Large Mach number range (0.2 to 5), 12-in. test section and advanced diagnostics is a unique, shared resource
 - NSF MRI (\$3.3M) & FSU AME \$25M facility





typical wind farm lifetime. They combined a county annual