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Center for Renewable Carbon
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Tuesday, October 26, 2010, 3:00 PM
Center for Renewable Carbon
Conference Room
2506 Jacob Drive
UT Institute of Agriculture

Research activities on bioenergy and biomaterials in the AIST Biomass Technology Research Center

ABSTRACT

In our research and development activities, innovative biofuel production technologies from various biomass feedstocks,focusing on woody biomass with the highest $C0_2$ fixation capability, are being developed. The following topicss are focus areas for AIST, and will be described in the presentation:

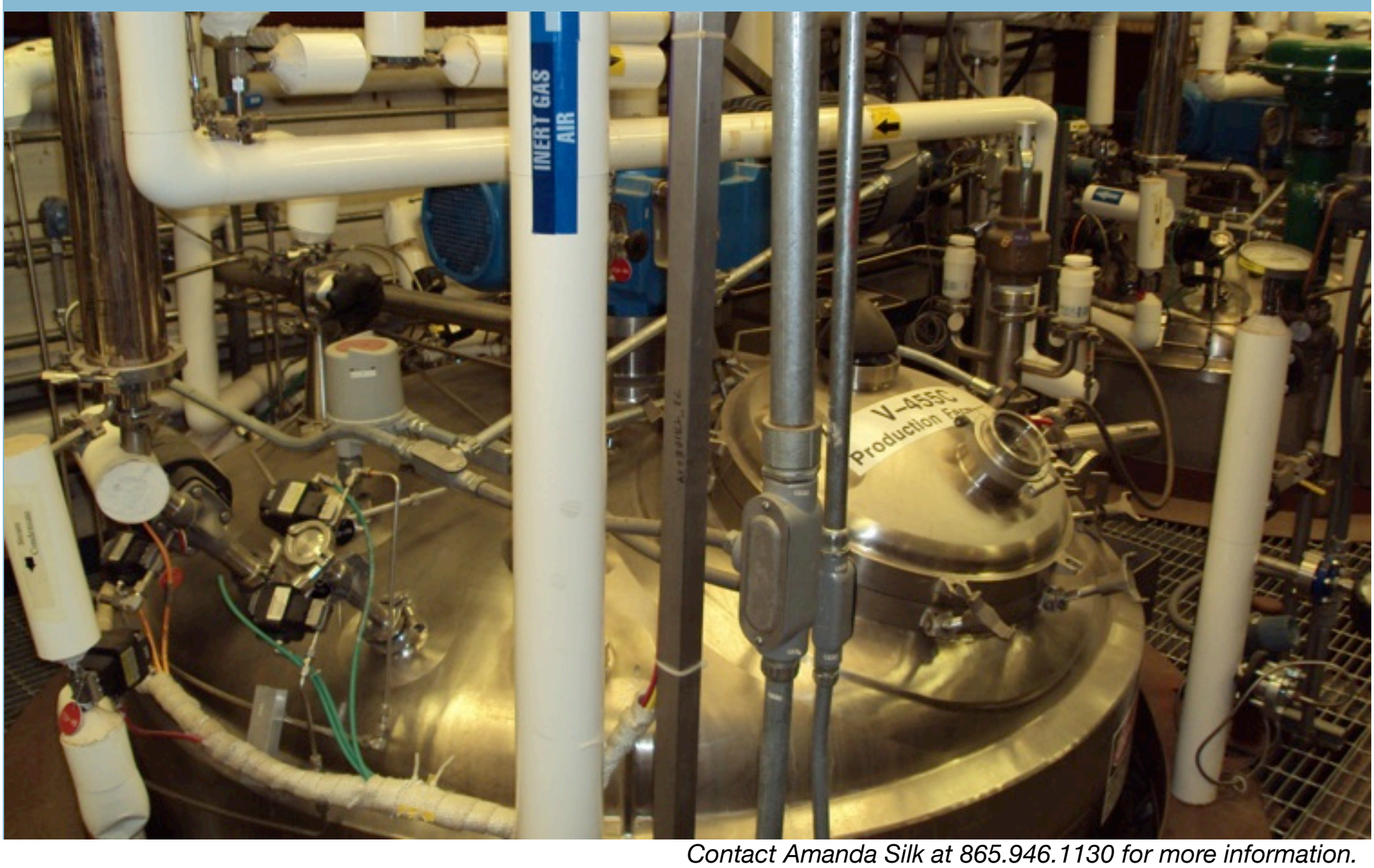
l) Development of highly efficient ethanol production technology from lignocellulosic biomass by the combination of non-sulfuric acid pretreatment with enzymatic sacchariication,

2)Development of technology to produce BTL-FT diesel fuel by designing a BTL (Biomass-to-Liquid) total process consisting of gasiication, hot gas cleaning, FT(Fischer-Tropsch) synthesis, hydro-cracking, and isomerization,

3) Development of an economical and environmental assessment of the system by sirnulating the biomass-to- liquid fuel production process, and

4) Construction of a biomass utilization system in Asia and a11 over the world by promoting the Asian Biomass Proiect.

We assume that cost-benefit practical biomass conversion processes that contribute to the construction of the true sustanable society will be developed by fulfilling such research and developments



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