To: David Grewell
Asst. Professor
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From: Deb Covey
Associate Director
311 TASF

Date: December 8, 2008

As required under your CRADA agreement, AL-C-2007-04, with Soy Works Corporation and entitled "Scale-up and Technology Transfer of Protein-based Plastic Products", a non-proprietary final report is required. Please provide me with a brief (1-2 page) report detailing the results of this work in the following format, no later than December 15, 2008:

Agreement Number AL-C-2007-04

Partner Name(s) Soy Works Corporation

Title Scale-up and Technology Transfer of Protein-based Plastic Products

Results

Over the last number of years researchers at ISU have been developing protein based plastics from soybeans, funded by Soy Works Corporation. These materials have been characterized and the processing of these materials into prototype products has been demonstrated. A wide range of net-shape forming processes, including but not limited to extrusion, injection molding and compression molding have been studied. Issues, including technology transfer, re-formulation and product consistency, have been addressed partially during this contract.

Also, commercial-scale processing parameters for protein based plastic products were designed, but not yet applicable in the industry. Support in the trouble shooting processing and the manufacturing of protein based plastic products was provided by Iowa State University during the one year contract.

Other Pertinent Information

None

Intellectual Property

None

Publications

None