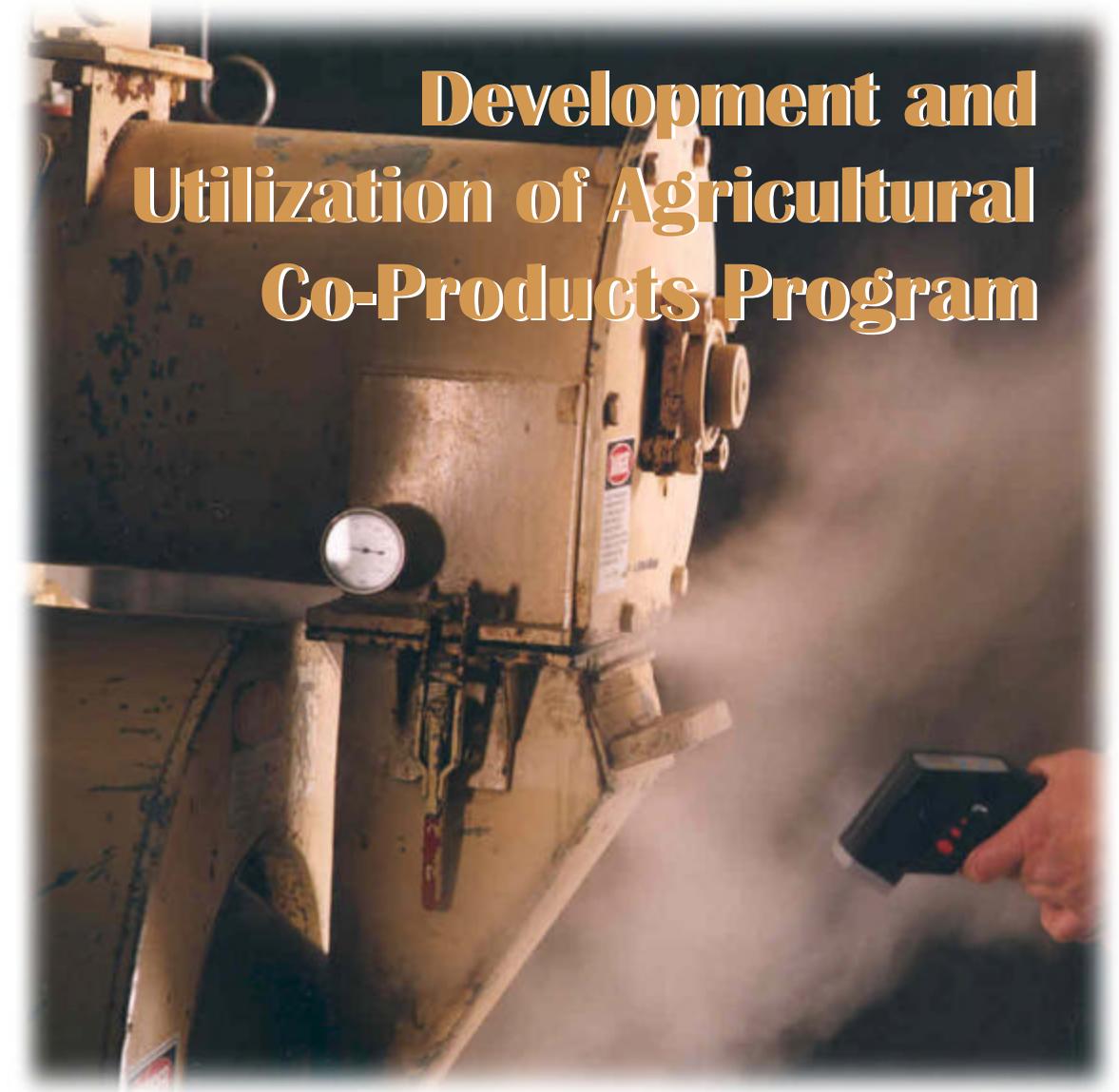


Products receiving technical assistance from AURI's co-product lab:

- ✘ Bio Builder: assistance in exploring different physical forms of Thrivin', a phosphorus-free ag based lawn and turf fertilizer
- ✘ Bixby Energy: development of an ag based pellet fuel with excellent burn characteristics
- ✘ Cenex/Land O'Lakes: validation and testing of Barrier®, an odor and gas emissions reducer for livestock confinement facilities
- ✘ Hill Wood Products: assistance in locating ag renewable sources of biomass for power generation
- ✘ Pet Care Systems: development and technical assistance for Swheat Scoop®, an all-natural, flushable, odor free cat litter
- ✘ Wildlife Sciences: technical assistance in the formulation of Suet Plus® bird seed cakes



Development and Utilization of Agricultural Co-Products Program

Agricultural Utilization Research Institute

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Mission

Statement

AURI Development and Utilization of Agricultural Co-Products Program seek utilization ideas for plant and animal by/co-products that present environmental and economic opportunities. The development of value-added agricultural products include:



- × **fertilizers**
- × **sorbents**
- × **renewable fuels**
- × **energy**
- × **animal feeds**
- × **soil amendments**
- × **biodegradables**

Utilization and processing of crop residues, agricultural processing co-products/by-products, animal manures and mortalities are the primary areas of value-added focus. Services are available to **producers, farm organizations, commodity groups, cooperatives, agribusiness, and rural startups.**



Co-Product Utilization

Pilot Lab Capabilities

- × product and process development of 5-200 pound batches
- × processing equipment available includes, but not limited to, grinding, milling, size reduction, blending, forming, pelleting, extrusion, cooling, and drying
- × capable of sourcing outside equipment supplied by independent equipment manufacturers
- × cost of production and economic feasibility
- × product characteristics such as density, particle size, and moisture
- × start-up production runs to produce sample product or feed for trial consisting of 200-4,000 pound batches



Pilot Lab

Uniqueness

- × co-products lab is the only value-added lab of its kind in the Midwest
- × many value-added agricultural products generate renewable and/or environmentally friendly products
- × co-products have characteristics that are typically wet or bulky, fibrous, and require special handling which the lab can easily adapt
- × lab deals with existing and start up companies
- × AURI can provide financial, technical, and networking assistance to Minnesota-based companies*

**Services for out of state clients are on a fee basis*