Industry Need:

Traditional commercial process for making lactams, which are important starting materials for production of nylon, solvents and other polymers, uses highly corrosive sulfuric acid and generates ammonium sulfate as a by-product.

Solution:

A novel catalyst that converts cyclic amines into lactams using an environmentally friendly process.

Conversion of Cyclic Amines into Lactams: Licensing/Commercialization Opportunity
About the Technology

- **Enables** synthesis of lactams used for a variety of commercial applications
- **Process** does not use highly corrosive sulfuric acid or generate ammonium sulfate by product
- **Does not** require high pressure equipment
- **Uses** different starting materials than traditional routes to lactams
Application Areas

- Synthesis of nylons and other polymers
Status

Development Stage:

- Early Stage
- Prototype/Proof of Concept
- Pilot/Pre-Commercial
- Commercial Ready
- Demonstrated Commercial

Intellectual Property Status:
- Patent issued: US Patent No. 8,212,027
- ISURF #3800

Contact Information:
Craig Forney
Email: ceforney@iastate.edu
Phone: 515-294-9513