Purdue Agriculture
“Not your Grandpa’s Agriculture”

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Associate Dean and Director

The mission of Purdue Agricultural Programs is to serve the citizens of Indiana, the United States, and the world through:
Discovery that expands the realm of knowledge and develops solutions to problems relevant to the agriculture, food, health, and natural resources sectors.
The Perfect Storm

- Federal and trade deficits
- Budget and tax cuts
- Post-9/11 defense and homeland security needs
- Anti-terrorism, Iraq, Afghanistan
- Hurricanes, Tornadoes, Typhoons, Tsunamis
- Pandemic flu
- Double research portfolio

http://www.nnvl.noaa.gov/hurricanes2005/Katrina1615z-050829-1kg12.jpg
Increasing Demands

Budget Cuts

• Ensure food safety and health
• Provide information and knowledge to improve environmental stewardship
• Improve economic return to agricultural producers
• Strengthen our communities and families
• Develop new and more competitive crop production practices and products and new uses for diverse crops and novel plant species
• Lessen the risks of local and global climatic change on food, fiber, and fuel production.
• Develop new and more competitive animal production practices, products, and uses
ISDA Strategic Plan

- Hardwoods sector
- Agriculturally-derived energy
- Livestock production and local economic development
  - Sound production practices
  - Public understanding
  - Appropriate land use
  - Double pork production
- Science-based regulatory standards
- Diversified farming and value-added opportunities
- Food processing
- Agricultural/trade policy and foreign market opportunities

Purdue’s plan of work for Indiana:

- Natural resources and environment
- Plants and their systems
- Animals and their systems
- Agricultural, natural resources, and biological engineering
- Food/non-food products
  - Development, processing, quality, and delivery
- Economics, markets and policy
- Human nutrition, food safety, human health and well being
- Family well being
- Youth development
- Economic, community development
Opportunities

- Integrate
  - Multi-state/Multi-institution
- Reinvigorate Tripartite Mission
  - Multi-disciplinary
  - Competitive
- Broaden goals beyond production and efficiency
- Increase inclusiveness
  - Food and fiber production
  - Human and animal health
  - Social and economic health
  - Environmental resource stewardship
  - Positive economic, social, environmental force
  - Social acceptance of agricultural systems
  - Pharmaceutical, nutritional, and biobased products

Opportunities

- Centers and Institutes
- Intellectual communities
  - Aquaculture - Soybeans - Bioenergy
  - Epigenetics - Water - Plant biology
  - Specialty crops - Corn
- Collaborations with other colleges
- Strategic and Joint hires
- Discovery Park
  - Nanotechnology - Energy
  - Biosciences - Environment
  - E-Enterprise - Oncology
  - Regenstrief - Cyber
  - Learning - Entrepreneurship
Big Science/New Paradigms

- Environmental, economic, and social impact of agricultural innovations
- Fundamental knowledge
- Scale/location of evaluations
- Examples:
  - Cropping systems and greenhouse gases
  - Nutrient leaching/water contamination
  - Traits
  - Nutrition/Obesity/Comparative Medicine
  - Food safety
  - Interactomes, and -omics
  - DHS initiatives
  - Site remediation
  - Animal waste/odor management
  - Bioproducts and bioenergy
  - Economics of environmental cost-benefit

Where are we headed?

- PLAN OF WORK
- MISSION ORIENTED GRANTS
- RAPID RESPONSE TEAMS
- COMMON INTEREST GROUPS

Discovery
Engagement
Learning
DEPT.
STRATEGIC
PLAN
Discovery
Engagement
Learning
COLLEGE
STRATEGIC
PLAN
Discovery
Engagement
Learning
USDA/USDA
STRATEGIC
PLAN
INTEGRATED
STATE NEEDS
NATIONAL NEEDS
Purdue University is an Equal Opportunity/Equal Access institution.

Environmental Security

Food Security

Health Security & Energy Security

Energy Security

Discovery & Engagement

Food, Feed, Fiber, Fuel, Refuge

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