



Purdue Agriculture Expertise - 2015

Air/Water/Soil Quality

- Indrajeet Chaubey (ichaubey@purdue.edu; 765-494-5013) Department of Agricultural and Biological Engineering
 - Dr. Chaubey studies ecohydrologic processes affecting fate and transport of sediment, nutrients, and pesticides from various land use activities and developing watershed management strategies to improve water quality.
- Otto Doering (doering@purdue.edu; 765 494-4226) Department of Agricultural Economics
 - Participated on National Academies of Science Panels on issues such as how to mitigate water pollution in the Mississippi River; helped develop recommendations on both institutional structure and specific approaches as well as on policy
- Bernard Engel (engelb@purdue.edu; 765-494-1162) Agricultural and Biological Engineering
 - Soil and Water Engineering with Interests in Water Quality, Drainage, Subirrigation, Surface Irrigation and Erosion Control
- Songlin Fei (sfei@purdue.edu; 765-496-2199) Department of Forestry and Natural Resources
 - Assessment of the impact of forest composition shift on CO₂ sequestration and water usage/yield
- Jane Frankenberger (frankenb@purdue.edu; 765-494-1194) Department of Agricultural and Biological Engineering
 - Responsible for the Purdue Extension program in soil and water engineering and water management and currently serves as the Extension Water Quality Coordinator.
 - She has led numerous water quality projects throughout Indiana, working with communities and public water supply systems both to develop source water protection strategies and to manage drinking water quality.
- Rich Grant (rgrant@purdue.edu; 765-494-8048) Department of Agronomy
 - Assessment of greenhouse gas emissions from agricultural production land
 - Assessment of odor and gas emissions from animal confinement support facilities.
- Al Heber (heber@purdue.edu; 765-494-1214) Department of Agricultural and Biological Engineering
 - Primary research is the assessment and mitigation of dust, odor and gas emissions from confined life support facilities.
 - Other expertise involves design of livestock buildings and air systems.
- Tomas Höök (thook@purdue.edu; 765-496-6799) Department of Forestry and Natural Resources
 - Great Lakes hypoxia; Associate Director for Research, Illinois-Indiana SeaGrant College program.
- Cliff Johnston (clays@purdue.edu; 765-496-1716) Department of Agronomy
 - Focus on understanding the surface chemistry of soil and environmental particles in the broader context of biosphere science.
- Kevin Keener (kkeener@purdue.edu; 494-6648) Department of Food Science
 - Greenhouse gasses; Air, water, and energy usage by food manufacturing; Waste management

- Jiqin Ni (jiqin@purdue.edu; 765-496-1733) Department of Agricultural and Biological Engineering
 - Anaerobic digestion for bio-energy production; air pollution measurement technology; sensor and software development; emission mathematical modeling; air and water pollution mitigation
- Dev Niyogi (climate@purdue.edu; 765-494-6574) Department of Agronomy
 - Indiana State Climatologist; land use land cover change; biosphere – atmosphere interactions; agricultural meteorology; severe weather; numerical weather prediction; climate change; remote sensing
- Phillip Owens (prowens@purdue.edu; 765-494-0247) Department of Agronomy
 - Soil geomorphology/pedology
- Linda Prokopy (lprokopy@purdue.edu; 765-496-2221) Department of Forestry and Natural Resources
 - Conducts research on what motivates farmers and other landowners to adopt conservation practices to protect water quality
 - Has developed a suite of social indicators for watershed management
- Darrell Schulze (dschulze@purdue.edu; 765-494-8062) Department of Agronomy
 - Soil mineralogy/chemistry/pedology
- Marisol Sepúlveda (mssepulv@purdue.edu; 765-496-3428) Department of Forestry and Natural Resources
 - Aquatic ecotoxicology; effects of contaminants on aquatic organisms
- Ron Turco, Director of the Indiana Water Resources Research Center (rturco@purdue.edu; 765-494-8077) Department of Agronomy
 - Studies the role of microbes in the water and their potential role in food contamination and the impact of nanomaterials on soil and water quality.
- Several faculty members in the Department of Agronomy are working in the area of how agricultural practices affect water quality:
 - Brad Joern (bjoern@purdue.edu; 765-494-9767) - manure and nutrient management
 - Eileen Kladvko (kladvko@purdue.edu; 765-494-6372) - drainage systems, use of cover crops to mitigate nutrient flow from crop land and enhance water quality
 - Laura Bowling (bowling@purdue.edu; 765-494-8051) - hydrological systems research on water flow to enhance water quality
 - Linda Lee (lslee@purdue.edu; 765-494-8612) – fate and transport of contaminants in soils and watersheds.
- Several faculty members in the Department of Animal Sciences are working in the area of nutrient management and impacts on air and water quality. Main contacts:
 - Todd Applegate, poultry (applegt@purdue.edu; 765-496-7769)
 - Paul Ebner, various livestock (pebner@purdue.edu; 765-494-4820).


Animal Well-being

- Grzegorz Buczkowski (gbuczkow@purdue.edu; 765-494-6314) Department of Entomology
 - Insect and rodent pest management in urban and agricultural environments including livestock farms
- Candace Croney (ccroney@purdue.edu; 765-496-3779), Department of Animal Sciences
 - Livestock and companion animal well-being

- Patricia (Scotti) Hester (phester@purdue.edu; 765-494-8019, Department of Animal Sciences
 - Poultry well-being
- Catherine Hill (hillca@purdue.edu; 765-496-6157), Department of Entomology
 - Biology of arthropods of medical and veterinary significance
 - Transmission and prevention of arthropod-borne diseases.
- Maja Makagon (mmakagon@purdue.edu; 765-496-1866), Department of Animal Sciences
 - Poultry behavior
- Nicole Olynk Widmar (nolynk@purdue.edu; 765-494-2567), Department of Agricultural Economics
 - Consumer willingness to pay for food product attributes related to animal care and well-being

Bioenergy/Biofuels/Cellulosics

- Corinne Alexander (cealexan@purdue.edu; 765-494-4249) and Steven Wu (sywu@purdue.edu; 765-494-4299), Department of Agricultural Economics
 - Research on the types of contracts most likely to succeed in providing incentives for farmers to plant perennial crops for cellulosic ethanol production.
- Sylvie Brouder (sbrouder@purdue.edu; 765-496-1489), Keith Johnson (johnsonk@purdue.edu; 765-494-4800), Jeff Volenec (jvolenec@purdue.edu; 765-494-48071), Department of Agronomy
 - Research on the agronomic parameters needed to economically and sustainably produce biomass for use in cellulosic energy and aviation fuel production
- Nick Carpita (Carpita@purdue.edu; 765-494-4653) Department of Botany & Plant Pathology
 - Research on the plant cell wall, the basic material for cellulosic biofuels. He studies the composition, synthesis and regulation of cell walls in a wide range of plants, including maize and sorghum.
- Dan Cassens (dcassens@purdue.edu; 765-494-3644) Department of Forestry and Natural Resources
 - Feasibility of woody biomass as energy feedstock in Indiana
- Clint Chapple (chapple@purdue.edu; 765 494-0494) Department of Biochemistry
 - Research related to bioenergy and cellulosic biofuel
- Songlin Fei (sfei@purdue.edu; 765-496-2199) Department of Forestry and Natural Resources
 - Application of geospatial statistics in the feasibility and sustainability of biomass production and processing.
- Klein Ileleji (ileleji@purdue.edu; 765-494-1198) Department of Agricultural and Biological Engineering
 - Biomass feedstock logistics, processing, particulate flows, storage, handling, and biofeedstock engineering systems for food, feed, fuel and fiber production.
- Guri Johal (gjohal@purdue.edu; 765-494-4448) Department of Botany & Plant Pathology
 - Uses maize genetics to identify genes that affect many aspects of plant growth and development, including the composition of the cell wall and its suitability as a raw material for biofuel production.
- Michael Ladisch (ladisch@purdue.edu; 765-494-7022) Department of Agricultural and Biological Engineering
 - Bioprocess scale-up and engineering of renewable resources to value-added products; biocatalysis for biofuels

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- Rick Meilan (rmeilan@purdue.edu; 765-496-2287) Department of Forestry and Natural Resources
 - Research related to poplar as a bioenergy feedstock; poplar genetic modification
 - Nathan Mosier (mosiern@purdue.edu; 765-496-2044) Department of Agricultural and Biological Engineering
 - Conversion of renewable resources to fuels, chemicals and pharmaceuticals
 - J. Scott Radcliffe (jradclif@purdue.edu) Department of Animal Sciences
 - One of several faculty working on how best to use co-products from the bioenergy industry as ingredients for livestock and poultry feeds. Has helped coordinate the department's component of an ISDA-funded project in this area.
 - Mike Scharf (mscharf@purdue.edu; 765-496-7610) Department of Entomology
 - Identifying the enzymes involved in termite digesting of woody material
 - Bernard Tao (tao@purdue.edu; 765-494-1183) Department of Agricultural and Biological Engineering
 - Biofuels
 - Wallace Tyner (wtyner@purdue.edu; 765-494-0199), Department of Agricultural Economics
 - Assessing the economic feasibility of cellulosic ethanol production in his work that is collaborative with engineers and biochemists across campus.
 - Research and engagement in the general biofuels area with focus on analysis of policies and the impact of biofuels on global land use and climate change in conjunction with Prof. Thomas Hertel (hertel@purdue.edu; 765-494-4199) and the Center for Global Trade Analysis (GTAP) in the Department of Agricultural Economics.
 - Co-chair of the Center for Research in Energy Systems and Policy at Purdue
 - Yuan Yao (yao1@purdue.edu; 494-6317) Department of Food Science
 - Carbohydrate metabolism of switchgrass

Biotechnology, Transgenic Crops/Livestock, GMOs


- Joe Anderson (janderson@purdue.edu; 765-494-4774) Department of Agronomy
 - Virus and disease resistance in wheat and oats
- Christopher Bidwell (cbidwell@purdue.edu; 765-494-8016) Department of Animal Sciences
- Clint Chapple (chapple@purdue.edu; 765-494-0494) Department of Biochemistry
- Paul Ebner (pebner@purdue.edu; 765-494-4820) Department of Animal Sciences
- Gebisa Ejeta (gejeta@purdue.edu; 765-494-4320) Department of Agronomy
 - Sorghum genetics, disease resistance
- Peter Goldsbrough (goldsbro@purdue.edu; 765-494-4615) Department of Botany and Plant Pathology
- Ameya Gondhalekar (ameyag@purdue.edu; 765-494-3389)
 - Cockroach and bed bug management
- Karen Hudson (kkaczoro@purdue.edu; 765-494-8057) USDA-ARS
 - Soybean seed composition
- Shihuan Kuang (skuang@purdue.edu; 765-494-8283) Department of Animal Sciences

- Shaneka S. Lawson (sslawson@purdue.edu; 765-412-6119) Department of Forestry and Natural Resources
 - Acacia koa; Next generation sequencing
- Jianxin Ma (maj@purdue.edu; 765-496-3662) Department of Agronomy
 - Soybean disease resistance, plant genomics, and plant structures
- Rick Meilan (rmeilan@purdue.edu; 765-496-2287) Department of Forestry and Natural Resources
- Paula Pijut (ppijut@purdue.edu; 765-496-2162) Departments of Forestry and Natural Resources and Horticulture and Landscape Architecture
 - Plant cell, tissue, and organ culture for the genetic improvement of trees
- Katy Martin Rainey (krainey@purdue.edu; 765-494-1212) Department of Agronomy
 - Soybean improvement
- Torbert Rocheford (torbert@purdue.edu; 765-494-9243) Department of Agronomy
 - Maize
- Steve Scofield (scotland@purdue.edu; 765-494-3674) USDA-ARS
 - Wheat disease resistance
- Kara Stewart (krstewart@purdue.edu; 765-496-6199) Department of Animal Sciences
- Mitch Tuinstra (mtuinstr@purdue.edu; 765-494-9093) Department of Agronomy
 - Maize and sorghum genetics, genomics, and heat and drought tolerance
- Cliff Weil (cweil@purdue.edu; 765-496-1917) Department of Agronomy
 - Maize and sorghum genetics and genomics
- Christie Williams (cwilliams@purdue.edu; 765-494-6763) USDA-ARS
 - Wheat Hessian Fly Resistance

Commodity Crop Issues

- Corinne Alexander (cealexan@purdue.edu; 765 494-4249); Craig Dobbins (cdobbins@purdue.edu; 765-494-9041); Jim Mintert (jmintert@purdue.edu; 765-494-8491) Department of Agricultural Economics
 - Research and Extension programs in crop production topics including risk management and taxation.
 - Alexander and Hurt also focus effort on crop marketing education and research including the use of risk management tools in marketing
 - Dobbins and Miller provide general cost of production information to producers and other stakeholders for major crops in Indiana
 - Mintert focuses effort on commodity prices and farm decision-making
- Sylvie Brouder (sbrouder@purdue.edu; 765-496-1489) Department of Agronomy
 - Plant nutrition, nutrient management and cropping systems
 - Soil fertility
- Jim Camberato (jcambera@purdue.edu; 765-496-9338) Department of Agronomy
 - Soil Fertility, fertilizer use recommendations, and soil health
- Dan Cassens (dcassens@purdue.edu; 765-494-3644) Department of Forestry & Natural Resources
 - Hardwood lumber and products markets

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- Shaun Casteel (scasteel@purdue.edu; 765-494-0895) Department of Agronomy
 - Soybean production management systems
 - Soybean growth and development
 - Bruce Erickson (berickso@purdue.edu; 765-494-7540) Department of Agronomy
 - Director of Agronomy Distance Education and Outreach, distance education for agronomic principles and crop management
 - Jamal Faghihi (jamal@purdue.edu; 765-494-5901) Department of Entomology
 - Nematode pest management
 - Corey Gerber (cgerber@purdue.edu; 765-496-3755) Department of Agronomy
 - Director of Diagnostic Training Center, Education of producers and agribusiness professionals in crop production
 - Rich Grant (rgrant@purdue.edu; 765-494-8048) Department of Agronomy
 - Developing methods and approaches to air quality across agricultural production land using different tillage and nitrogen input processes
 - Chris Hurt (hurtc@purdue.edu; 765-494-4273) Department of Agricultural Economics
 - Family farm market problems, pricing strategies, and livestock futures market problems, pricing strategies, and livestock futures market performance.
 - Bill Johnson (wgj@purdue.edu; 765-494-4656) Department of Botany & Plant Pathology
 - Effective methods for weed control in agronomic crops. He is currently focused on the issue of weeds with resistance to glyphosate (Roundup).
 - Eileen Kladviko (Kladviko@purdue.edu; 765-494-6372) Department of Agronomy
 - The use of cover crops to increase soil health and reduce leaching of nutrients in the water
 - Christian Krupke (ckrupke@purdue.edu; 765-494-4912) Department of Entomology
 - Insect pest management of agronomic crops
 - Michael Langemeier (mlangeme@purdue.edu; 765-494-9557) Department of Agricultural Economics
 - Cropping systems, benchmarking, strategic management, cost of production, and technical and economic efficiency.
 - Linda Mason (lmason@purdue.edu; 765-494-0245) Department of Entomology
 - Post -Harvest Management of Insect Pests – stored grain, stored and processed foods
 - Robert Nielsen (rnielsen@purdue.edu; 765-494-4802) Department of Agronomy
 - Corn growth and development
 - Site-specific crop management technologies
 - Spatial technologies (remote sensing; GIS; GPS)
 - Jeffrey Volenec (jvolenec@purdue.edu; 765-494-8071) Department of Agronomy
 - physiological and biochemical mechanisms influencing growth and stress tolerance of plant species used for livestock feed and biofuels
 - Tony Vyn (tvyn@purdue.edu; 765-496-3757) Department of Agronomy
 - Cropping system modification (tillage, crop rotation, nutrient management, etc.) to improve profitability, soil stewardship, and long-term sustainability of corn and soybeans
 - Soil fertility
 - Spatial technologies (remote sensing; GIS; GPS)
 - Kiersten Wise (kawise@purdue.edu; 765-496-2170) Department of Botany & Plant Pathology
 - Provides crop consultants and producers timely and accurate information on economic and sustainable approaches to manage diseases in these crops.

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- Charles Woloshuk (woloshuk@purdue.edu; 765-494-3450) Department of Botany & Plant Pathology
 - Studies the molds that infect corn during production and storage and the associated mycotoxins that are produced by these fungi.
 - Bryan Young (BryanYoung@purdue.edu; 765-494-3450) Department of Botany & Plant Pathology
 - Weed biology and ecology relative to developing effective management strategies in agronomic crops, herbicide application technologies for optimization and stewardship of herbicide use, and the physiological characterization of herbicide-resistant weed biotypes.
 - Several faculty members in the Department of Agronomy are working in the area of genetic improvement of economic crops such as corn, soybean, wheat, oats, and sorghum. Main contacts are:
 - Gebisa Ejeta (gejeta@purdue.edu; 765-494-4320) – Sorghum genetics, disease resistance
 - Mitch Tuinstra (mtuinstr@purdue.edu; 765-494-9093) - Maize and Sorghum genetics, genomics, and heat and drought tolerance
 - Cliff Weil (cweil@purdue.edu; 765-496-1917) Maize and Sorghum genetics and genomics
 - Torbert Rocheford (torbert@purdue.edu; 765-494-9243) – Maize
 - Katy Martin Rainey (krainey@purdue.edu; 765-494-1212) – Soybean improvement
 - Karen Hudson (kkaczoro@purdue.edu; 765-494-8057) - USDA-ARS Soybean seed composition
 - Steve Scofield (scofield@purdue.edu; 765-494-3674) - USDA-ARS wheat disease resistance
 - Christie Williams (cwilliams@purdue.edu; 765-494-6763) - USDA-ARS wheat, Hessian Fly, and insect resistance
 - Joe Anderson (janderson@purdue.edu; 765-494-4774) - virus and disease resistance in wheat and oats
 - Yiwei Jiang (yjiang@purdue.edu; 765-494-0651) - understanding physiological, molecular and genetic basis of abiotic stress tolerance in grass species used for turf, forage and bioenergy.
 - Jianxin Ma (maj@purdue.edu; 765-496-3662) - Soybean disease resistance, plant genomics, and plant structures

Community and Economic Development

- Larry DeBoer (ldeboer@purdue.edu; 765-494-4314) Department of Agricultural Economics
 - Local government finance
- Brigitte Waldorf (bwaldorf@purdue.edu; 765-496-6262) Department of Agricultural Economics
 - Population and demographics
- Lionel (Bo) Beaulieu (ljb@purdue.edu; 765-494-4277) Director, Purdue Center for Regional Development
 - Economic development

Conservation

- Shady S. Atallah (satalla@purdue.edu; 496-0077) Departments of Forestry and Natural Resources and Agricultural Economics
 - Economic impacts of plant pests and diseases
 - Economic potential of the domestication of overcollected non-timber forest products
 - International Standard for Sustainable Wild Collection (ISSC-MAP) Advisory Group member, Medicinal Plant Specialist Group, IUCN – The World Conservation Union
- Otto Doering, (doering@purdue.edu; 765 49-44226) Department of Agricultural Economics
 - Member, Department of Interior's Invasive Species Advisory Committee
 - Member, U.S. Environmental Protection Agency's Science Advisory Board
 - Research in alternative energy and agricultural policy
 - Works closely with Natural Resources Conservation Service
- John B. Dunning, Jr. (jdunning@purdue.edu; 494-3565) Department of Forestry and Natural Resources
 - Expert on bird conservation; serves on IDNR Bird Technical Advisory Committee
- Songlin Fei (sfei@purdue.edu; 765-496-2199) Department of Forestry and Natural Resources
 - Modeling and management of invasive exotic species
 - Habitat suitability analyses for threatened and endangered species conservation and restoration
 - Impact of climate change on forest ecosystem sustainability
- Liz Flaherty (eflaher@purdue.edu; 765-494-3567) Department of Forestry and Natural Resources
 - Carnivore conservation
- Matthew Ginzel (mginzel@purdue.edu; 765-494-9369) Departments of Entomology and Forestry & Natural Resources
 - Invasive insect pests of hardwood trees
- Jeff Holland (jdhollan@purdue.edu; 765-494-7739) Department of Entomology
 - Spatial ecology and insect biodiversity
- Jason Hoverman (jhoverm@purdue.edu; 765-496-3263) Department of Forestry and Natural Resources
 - Amphibian conservation; wildlife disease
- Mike Jenkins (jenkinma@purdue.edu; 765-494-3602) Department of Forestry and Natural Resources
 - Effects of invasive plants on native forest ecosystems
- Eileen Kladvko (Kladvko@purdue.edu; 765-494-6372) Department of Agronomy
 - Using cover crops to reduce soil erosion and leaching of nutrients in water
- Zhao Ma, (zhaoma@purdue.edu; 765-494-1790) Department of Forestry and Natural Resources
 - Resource user/landowner decision making
 - Natural resource policy
 - Evaluation of communication strategies targeting resource users/landowners
 - Research program covers a wide range of topics, including water, forest management, invasive plants, climate change, and farming-related issues (e.g., beginning farmers, absentee landownership)
- Brian MacGowan (macgowan@purdue.edu; 765-647-3538) Department of Forestry and Natural Resources
 - Wildlife damage; wildlife and habitat management

- Charles Michler (michler@purdue.edu; 496-6016) Department of Forestry and Natural Resources
 - Director, Hardwood Tree Improvement and Regeneration Center; knowledgeable on conservation issues related to fine hardwoods
- Cindy Nakatsu (cnakatsu@purdue.edu; 765-496-2997) Department of Agronomy
 - Microbial Ecology
- Linda Prokopy (lprokopy@purdue.edu; 765-496-2221) Department of Forestry and Natural Resources
 - Conducts research on what motivates farmers to adopt conservation practices
- Mike Saunders (msaunder@purdue.edu; 765-430-1440) Department of Forestry and Natural Resources
 - Effects of natural and anthropogenic disturbances on forest ecosystems
 - Sustainable forest management
- Marisol Sepulveda (mssepulv@purdue.edu; 765-496-3428) Department of Forestry and Natural Resources
 - Ecological contaminants in aquatic systems; wildlife disease
- Gary Steinhardt (gsteinha@purdue.edu; 765-494-8062) Department of Agronomy
 - Soils – septic system placement
- Rob Swihart (rswihart@purdue.edu; 494-3590) Department of Forestry and Natural Resources
 - Expert on mammal conservation; serves on IDNR Mammal Technical Advisory Committee
- Tony Vyn (tvyn@purdue.edu; 765-496-3757) Department of Agronomy
 - Cropping system modification (tillage, crop rotation, nutrient management, etc.) to improve profitability, soil stewardship, and long-term sustainability of corn and soybeans
 - Conservation tillage effects on plant-to-plant variability in corn
- Rod Williams (rodw@purdue.edu; 494-3568) Department of Forestry and Natural Resources
 - Expert on amphibian and reptile conservation; serves on Indiana DNR Technical Advisory Committee for Amphibians and Reptiles
- Jennifer Zaspel (jzaspel@purdue.edu; 494-4599) Department of Entomology
 - Insect systematics, taxonomy and evolution
- Pat Zollner (pzollner@purdue.edu; 496-9495) Department of Forestry and Natural Resources
 - Expert on mammal conservation; serves on IDNR Mammal Technical Advisory Committee
- USDA-ARS National Soil Erosion Research Laboratory: Chi-Huang (chihua@purdue.edu; 765-494-6143), Doug Smith (drsmith@purdue.edu; 765-494-0330), Diane Stott (destott@purdue.edu; 765-494-6657) National Soil Erosion Research Laboratory USDA/ARS
 - Major program thrusts of the NSERL include fundamental erosion process research, erosion control research, and delivery of improved erosion prediction technology.
- USDA-NRCS - Diane Stott (destott@purdue.edu; 765-426-5561) National Soil Health Specialist

Education/Youth Development

- Colleen Brady (bradyc@purdue.edu; 765-494-8433) Youth Development and Agricultural Education
 - Youth Animal Science Education, focus on how animals engage youth in learning especially in the area of Science, Technology, Engineering and Mathematics (STEM)
- Natalie Carroll (ncarroll@purdue.edu; 765-494-8433) Youth Development and Agricultural Education

- Informal learning, especially science learning through environmental and natural resources experiences.
- Bruce Erickson (berickso@purdue.edu; 765-494-7540) Department of Agronomy
 - Director of Agronomy Distance Education and Outreach, distance education for agronomic principles and crop management
- Levon Esters (lesters@purdue.edu; 765-494-8423) Youth Development and Agricultural Education
 - Use of agriculture as a context for teaching and learning Science, Technology, Engineering and Mathematics (STEM)
- Sherry Fulk-Bringman (sherryfb@purdue.edu; 765-494-8627) and Suzanne Cunningham (scunningham@purdue.edu; 765-494-8074) Department of Agronomy
 - Informal and experiential learning with elementary grade students on soil and plant science in laboratory and farm settings
- Corey Gerber (cgerber@purdue.edu; 765-496-3755) Department of Agronomy
 - Director of Diagnostic Training Center, Education of producers and agribusiness professionals in crop production
- John Graveel (jgraveel@purdue.edu; 765-494-8205) Department of Agronomy
 - Director of Natural Resources & Environmental Science Program, focused on innovative teaching techniques and active learning of undergraduate courses in Soil Science, Environmental Science, and the Environmental Studies Learning Community.
- Neil Knobloch (nknobloc@purdue.edu; 765-494-8439) Youth Development and Agricultural Education
 - Experiential learning; learner-centered teaching; science literacy
- Kathryn Orvis (orvis@purdue.edu; 765-494-8439) Youth Development and Agricultural Education
 - Informal science, agriculture and environmental education through youth gardening including the Junior Master Gardener program. Utilizing youth gardening as a teaching tool for topics related to STEM education
- Jeff Sanson (ijsanson@purdue.edu; 765-494-0188) Director, Indiana Council for Economic Education, Department of Agricultural Economics
 - Economic education and financial literacy
- Roger Tormoehlen (torm@purdue.edu; 765-494-8423) Youth Development and Agricultural Education
 - Electronic-based learning, engineering literacy, inquiry/challenge-based learning
- Mark Tucker (matucker@purdue.edu; 765-494-8429) Youth Development and Agricultural Education
 - Science and risk communications. Understanding and improving consumer and farmer decision-making about food and agricultural issues
- George Van Scoyoc – (gev@purdue.edu; 765-494-5115) Department of Agronomy
 - Soils Teaching and Research

Food Entrepreneurship

- Paul Ebner (pebner@purdue.edu; 494-4820) Department of Animal Sciences
 - Extension program includes assembling information for livestock producers interested in pursuing organic markets
- Joan Fulton (fultonj@purdue.edu; 765-494-0594) Department of Agricultural Economics

- Marketing and business structure
- Chair of Purdue Agriculture's New Ventures Team (<http://www.agecon.purdue.edu/newventures/>), which helps entrepreneurs start and maintain alternative enterprises to fuel economic development in rural Indiana. Much of this group's emphasis is on small-scale food processing.
- Director of Agricultural Innovation and Commercialization Center
- Kevin Keener (kkeener@purdue.edu; 494-6648), Department of Food Science
 - Assistance
- Maria Marshall (mimarsha@purdue.edu; 765 494-4268) Department of Agricultural Economics
 - Small and family business management, food marketing, and entrepreneurship.

Food Safety

- Arun Bhunia (bhuniam@purdue.edu; 494-5443) Department of Food Science
 - Development and application of optical biosensors including light scattering sensor, fiber optic, surface plasmon resonance (SPR), and cell-based sensor for pathogen and toxin detection
- Paul Ebner (pebner@purdue.edu; 494-4820) Department of Animal Sciences
 - Ways to minimize foodborne pathogens in food animals.
- Kevin Keener (kkeener@purdue.edu; 765-494-6648) Department of Food Science
 - Director of the Food Processing Environmental Compliance Assistance Center (FPECAC), which is committed to developing and promoting innovative strategies that achieve better environmental results, reduce costs, and promote environmental stewardship throughout the Food Processing Industry.
 - FPECAC activities include development of a web portal with fact sheets and related educational materials on environmental regulations and compliance, development and delivery of environmental workshops, and on-site environmental audits.
- Lisa Mauer (mauerl@purdue.edu; 494-9111), Department of Food Science
 - Director, [Food Safety Engineering Center](#), which develops new knowledge, technologies and systems for detection and prevention of chemical and microbial contamination of foods

Livestock Issues

- Mike Boehlje (boehlijem@purdue.edu; 765 494-4222); Ken Foster (kfoster@purdue.edu; 765-494-1116); Christopher Hurt (hurtc@purdue.edu; 765 494-4273); John Lee (jlee1@purdue.edu; 765 494-3285); Jim Mintert (jmintert@purdue.edu; 765-494-8491); Philip Paarlberg (paarlbeb@purdue.edu; 765 494-4251); Kwamena Quagraine (kquagrai@purdue.edu; 765-494-4200); Nicole Olynk Widmar (nolynk@purdue.edu; 765-494-2567) Department of Agricultural Economics
 - Research and outreach on the structure, conduct, and performance of livestock and meat markets in the U.S.
 - Foster and Paarlberg testified to the U.S. Senate Ag Committee on structural issues in the swine and cattle industries

- Foster conducts research and extension programs in a wide range of topics related to meat and livestock production including economics of livestock waste disposal and contract production of swine.
- Mintert focuses effort on commodity prices and farm decision-making support
- Paarlberg and Lee conduct research on the potential economic impacts of exotic livestock and poultry diseases in the U.S. as well as socially optimal policy responses to disease outbreaks.
- Olynk Widmar focuses on assisting with and providing support for agricultural producer decision making.
- Quagraine focuses on aquacultural and aquaponic production systems and markets
- Paul Ebner (pebner@purdue.edu; 494-4820) Department of Animal Sciences
 - Oversees the CAFO website and is working on public health aspects of livestock operations, including CAFOs.
- Brad Joern (bjjoern@purdue.edu; 765-494-9767) Department of Agronomy
 - Research and Extension efforts on developing EPA approved technologies for manure management strategies for confined animal feed operations
- Keith Johnson (johnsonk@purdue.edu; 765-494-4800) Department of Agronomy
 - Research and Extension efforts on forages, forage crop management and forage quality
- Numerous faculty in the Department of Animal Sciences working in this broad area; Alan Mathew (agmathew@purdue.edu; 494-4806) can direct inquiries to specific faculty.

Local Food Production/Local Markets

- Shady S. Atallah (satalla@purdue.edu; 765-496-0077) Departments of Forestry and Natural Resources and Agricultural Economics
 - Economic impacts of localizing horticultural supply chains in the US
- Tamara Benjamin (tamara17@purdue.edu; 765-496-1930) Department of Botany and Plant Pathology
 - Local food production, small farms, and sustainable agricultural production
- Christian Butzke (butzke@purdue.edu; 494-6500) Department of Food Science
 - Wine
- Dan Cassens (dcassens@purdue.edu; 765-494-3644) Department of Forestry & Natural Resources
 - Processing small quantities of hardwood logs into lumber and other products
- Jennifer Dennis (jhdennis@purdue.edu; 765-494-1352 or 494-9812) Departments of Horticulture and Landscape Architecture and Agricultural Economics
 - Specialty crop marketing; farmers' markets; agritourism
- Joan Fulton (fultonj@purdue.edu; 765 494-0594) Department of Agricultural Economics
 - Workshops on "Bigger Profits Through Targeted Sales" to enhance the sustainability of local entrepreneurs
- Kevin Keener (kkeener@purdue.edu; 494-6648) Department of Food Science
 - Food safety with farmers' markets
- Ron Lemenager (rpl@purdue.edu; 494-4817) Department of Animal Sciences
 - Works with some of the freezer beef programs in the State.

- Maria Marshall (mimarsha@purdue.edu; 765 494-4268) Department of Agricultural Economics
 - Instrumental in maintaining Indiana MarketMaker (<http://in.marketmaker.uiuc.edu/>); Indiana MarketMaker is an interactive mapping system that locates businesses and markets of agricultural products in Indiana and provides an important link between producers and consumers, facilitating local consumption and markets for locally produced agricultural products.
- Jeanette Merritt (jkmerritt@purdue.edu; 765-496-3842) Food Science
 - Wine

Nutrition/Childhood Obesity

- Kola Ajuwon (kajuwon@purdue.edu; 494-4822) Department of Animal Sciences
 - Working on projects with obesity applications.
- Mario Ferruzzi (mferruzz@purdue.edu; 494-0625) Department of Food Science
 - Phytochemicals
 - Functional foods
- Kee-Hong Kim (keehong@purdue.edu; 496-2330) Department of Food Science
 - Functional foods
 - Obesity (mechanism; link to food components)
- Several faculty in Department of Animal Sciences working in nutrition areas that have human health implications; contact Alan Mathew (agmathew@purdue.edu; 494-4806)

Precision Agriculture

- Melba Crawford (melbac@purdue.edu; 765-496-9355) Department of Agronomy
 - Director of Laboratory for Applications of Remote Sensing (LARS), Methods in statistical pattern recognition for high dimensional data analysis, data fusion techniques for multisensor problems, multiresolution methods in image analysis, and knowledge transfer in data mining.
- Katy Martin Rainey (krainey@purdue.edu; 765-494-1212) Department of Agronomy
 - Soybean improvement


Regulatory Issues

- Christian Butzke (butzke@purdue.edu; 494-6500) Department of Food Science
 - Wine
- Larry DeBoer (ldeboer@purdue.edu; 765 494-4314) Department of Agricultural Economics
 - Informs state and local policy makers in Indiana on a host of regulatory and policy issues ranging from school consolidation to property taxes
- Ken Foster (kfoster@purdue.edu; 765-494-1116) Department of Agricultural Economics
 - Economic consequences of alternative manure management regulations on swine producers. Research integrates the ability to adjust crops and the diets fed to pigs in order to mitigate the costs of regulations.

- Rich Grant (rgrant@purdue.edu; 765-494-8048) Department of Agronomy
 - Developing with EPA air quality standards for dairy operations.
- Gerald Harrison (harrisog@purdue.edu) 765-494-4216) Department of Agricultural Economics
 - Agricultural law
- Brad Joern (bjourn@purdue.edu; 765-494-9767) Department of Agronomy
 - State and EPA approved technologies for manure management strategies and rules for confined animal feed operations and nutrient management for land applications.
- Kevin Keener (kkeener@purdue.edu; 494-6648) Department of Food Science
 - Food processing (including permitting)
- Roman Keeney (rkeeney@purdue.edu; 765-494-4253) Department of Agricultural Economics
 - National agricultural policy and farm bill legislation
- Michael Langemeier (mlangeme@purdue.edu; 765-494-9557) Department of Agricultural Economics
 - Crop insurance
- Lisa Mauer (mauerl@purdue.edu; 494-9111) Department of Food Science
 - Food safety
- Alan Miller (millerwa@purdue.edu; 765-494-4203) Department of Agricultural Economics
 - Estate planning and asset transfer
- Jon Neal (jneal@purdue.edu; 765-494-4594) Department of Entomology
 - Insect toxicologist with expertise in federal pesticide regulations
- The Plant and Pest Diagnostic Lab (P&PDL) is a critical resource for the IN Dept. of Natural Resources, providing diagnostic services and control advice when diseases that are of regulatory concern are found in the state. Tom Creswell, Director (creswell@purdue.edu; 765-494-8081)
- Purdue Pesticide Programs is an educational unit that focuses much of their efforts on educating growers and the commercial pesticide industries about regulatory issues and certification procedures. Fred Whitford, Director (fwhitford@purdue.edu; 765-494-1284)

Specialty Crops and Organics

- Corinne Alexander (cealexan@purdue.edu; 765 494-4249) Department of Agricultural Economics
 - Marketing and production issues in the areas of organic crop production as well as production of crops for other specialized uses such as white corn used in masa for tortilla production.
- Shady S. Atallah (satalla@purdue.edu; 765-496-0077) Departments of Forestry and Natural Resources and Agricultural Economics)
 - Economic impact of the grapevine leafroll disease in vineyards
 - Bio-economics of spatial disease management in vineyards
 - Economic value of using material derived from clean, pathogen-tested grapevine stocks
 - Development of East Coast broccoli production
- Joe Balagtas (balagtas@purdue.edu; 765 494-4298) Department of Agricultural Economics
 - Efficient production of organic crops and livestock products
- Janna Beckerman (jbeckerm@purdue.edu; 765-494-4628) Department of Botany & Plant Pathology
 - Diseases of fruit and ornamental crops, with particular emphasis on the effective use of fungicides to control diseases in a sustainable manner.

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- Bruce Bordelon (bordelon@purdue.edu; 765-494-8212) Department of Horticulture and Landscape Architecture
 - Research and Extension in grapes and small fruit, with emphasis on integrated crop management to improve economics of production and fruit quality using sustainable approaches.
 - Evaluation of new grape cultivars for superior fruit quality and adaption to Indiana climates and soils.
 - Christian Butzke (butzke@purdue.edu; 494-6500) Department of Food Science
 - Grapes
 - Dan Cassens (dcassens@purdue.edu; 765-494-3644) Department of Forestry & Natural Resources
 - Christmas trees
 - Jennifer Dennis (jhdennis@purdue.edu; 765-494-1352 or 494-9812) Departments of Horticulture and Landscape Architecture and Agricultural Economics
 - Specialty crop marketing; farmers' markets; agritourism
 - Dan Egel, Extension Plant Pathologist (egel@purdue.edu; 812-886-0198) Southwest Purdue Agricultural Program
 - Vegetable disease specialist for Indiana
 - Maintains MELCAST, a weather-based spray advisory program for melon growers in SW Indiana that helps reduce the use of fungicides
 - Also provides a forecasting program for downy mildew on cucurbits, conducts research on fungicide efficacy, and provides information about organic production
 - Mario Ferruzzi (mferruzz@purdue.edu; 494-0625) Department of Food Science
 - Phytochemicals in fruits and vegetables
 - Rick Foster (fosterre@purdue.edu; 494-9572) Department of Entomology
 - Fruit and vegetable insect pest management
 - Kevin Gibson (kgibson@purdue.edu; 765-496-2161) Department of Botany & Plant Pathology
 - Weed management in tomatoes and other specialty crops, with a particular interest in weed control in organic production systems.
 - Krispn Given (kgiven@purdue.edu; 765-429-6469) Department of Entomology
 - Beekeeping; swarm removal and honey bee biology
 - Steve Hallett (halletts@purdue.edu; 765-494-7649) Department of Botany and Plant Pathology
 - Steve's applied research targets the development of bioherbicides for weed control and studies the mechanisms of herbicide resistance while his basic research studies the ecology of the interactions between weeds and soil microbial communities in agricultural and natural systems.
 - Peter Hirst (hirst@purdue.edu; 765-494-1323) Horticulture and Landscape Architecture
 - Fruit tree production
 - Leads a team that recently received a \$6M grant from USDA and industry to develop and improve machines that use cameras and robotic arms to prune vines and trees
 - Greg Hunt (ghunt@purdue.edu; 765-494-4605) Department of Entomology
 - Honey bee health and beekeeping
 - Ian Kaplan (ikaplan@purdue.edu; 765-494-7207) Department of Entomology
 - Sustainable management of specialty crop insect pests
 - Roberto Lopez (rglopez@purdue.edu; 765-496-3425) Department of Horticulture and Landscape Architecture
 - Floriculture

- Field and high tunnel cut flower production
- Flowering physiology of new greenhouse crops
- Production and marketing environmental sustainability
- Dan Szymanski (szymandb@purdue.edu; 765-494-8092) Department of Agronomy
 - Plant growth and development
- Cankui Zhang (ckzhang@purdue.edu; 765-496-6889) Department of Agronomy
 - Yield Improvement, Plant Mineral Physiology, Biofortification and Long Distance Signaling

Trade

- Philip Abbott (abbottpc@purdue.edu; 765-494-4272) Department of Agricultural Economics
 - International agriculture trade expert
- Thomas Hertel (hertel@purdue.edu; 765 494-4199) Department of Agricultural Economics
 - Director of the Center for Global Trade Analysis (GTAP), recognized worldwide for the extensive data set it has amassed for modeling trade policy in a global context. GTAP develops software programs for analysis of data in a wide range of trade applications including implications of capital accumulation, foreign direct investment, and environmental impact
- Kevin Keener (kkeener@purdue.edu; 494-6648) Department of Food Science
 - Food export

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