

ACES Academy of Global Engagement 2007

Scholars

Agricultural and Biological Engineering:



Vijay Singh

Dr. Singh focuses his research on novel corn fractionation techniques, dry grind ethanol, corn wet milling, and process simulation and economic analysis. He also teaches two courses; bioprocessing grains for fuels, and grain bioprocessing coproducts.

He received his B.S. in agricultural engineering from G.B. Pant University of Agriculture and Technology, India, and his M.S. and Ph.D. from the University of Illinois Agriculture Engineering department.

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Agricultural and Consumer Economics:



Bryan Endres

Professor Endres works on legal issues affecting agriculture, such as trade and liability issues resulting from biotechnology, and sustainable agriculture practices. He focuses on attribute agriculture, agricultural biotechnology, intellectual property, sustainable agriculture and land use issues. He also teaches two courses; law and regulation of biotechnology and food law.

He received his B.S. from the U.S. Military Academy, a M.A. from Bowie State University, and a J.D. from the University of Illinois.

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Scholars

Animal Science:



John Killefer

Dr. Killefer works on the study of regulators of growth and factors influencing muscle development and meat quality. He uses contemporary molecular genetic and biochemical techniques to investigate gene expression from embryonic development through maturity. He has used genetic mapping to identify genes associated with economically important quantitative traits, and investigate genetic interactions with nutritional and environmental factors on animal physiology.

He received a B.A. from Hastings College, and a Ph.D. from Oregon State University.

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Crop Science:



Martin Bohn

Dr. Bohn's overall research goal is to develop improved maize germplasm that contributes to an economically efficient and sustainable maize production in high yielding environments and which adds improved traits to secure harvest under restricted growing conditions. He is specifically interested in understanding the genetic basis of biotic stress responses, root development, and cell wall biology in maize. He teaches three courses, CPSC 116 "The Food Production Web", CPSC 558 "Quantitative Genetics and Plant Breeding", and CPSC 564 "Molecular Marker Data Analysis".

He received a first degree from the University of Bonn, Germany, and a Dipl.-Ing.agr. degree and Ph.D. from the University of Hohenheim, Germany. He was also a visiting scientist at the International Center for Wheat and Maize Breeding, CIMMYT, Mexico.

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Food Science and Human Nutrition:



Graciela Padua

Dr. Padua teaches food processing to undergraduates in Food Science and Food Industry and Business programs. Her research interests include development of degradable plastics derived from corn, to increase market diversification for corn starch co-product. She also works on development of new technologies for food processing, focusing on interactions between microwave energy and food materials.

She received a B.S. in biochemical engineering from National Polytechnic Institute, Mexico City, and a M.S. and Ph.D. in Food Science at the University of Illinois.

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Scholars

Human and Community Development:



Neil Knobloch

Dr. Knobloch focuses his research on how teacher motivation and use of learner-centered teaching influences student motivation and learning outcomes in agricultural, environmental and nutritional sciences. Using mixed methods and theories of motivation and personal epistemology, his research has documented increased student motivation and learning through interventions of problem-based learning in nutrition education and experiential learning in outreach education contexts. His work has been used to help professors and outreach educators create more engaging learning environments. He teaches the following courses: Teaching Strategies for Youth; Education and Human Capital; Community-Based Horticulture Education; Food Systems and Environmental Literacy for Public Schools.

He received his B.S. and M.S. from Iowa State University in agricultural education, and Ph.D. from Ohio State University in human and community resource development.

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Natural Resources and Environmental Sciences



Daniel Warnock

Dr. Warnock is interested in integrated pest management approaches to limit insect damage in floriculture crop production systems. His current research is focused on evaluating current cultivars for improved levels of thrips resistance and identifying synergistic effects between resistant plants and insecticides. He teaches two courses; greenhouse management and production and floriculture crops production.

He received his B.S and M.S. in horticulture from the University of Georgia, and Ph. D. in horticulture with a minor in plant breeding and genetics, University of Minnesota.

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Scholars

University of Illinois Extension



George Czapar – Springfield Center

Dr. Czapar offers extension programs for protecting water quality, integrated weed management and aquatic weed control. He also holds an adjunct associate professor position in crop sciences and teaches in their off campus graduate students program. He serves as a technical advisor for the Illinois Council for Best Management Practices (C-BMP) and the leader for the C-FAR strategic research initiative on water quality.

He received a B.S. agronomy and M.S. weed science from the University of Illinois, and a Ph.D. in weed science from Iowa State University.

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