



**University of Illinois
at Urbana-Champaign
Faculty and Staff with Interests
in Biofuels/
Bioenergy Systems**

Compiled by

**Center for Advanced
BioEnergy Research
(CABER)**

Fall 2008



ILLINOIS
UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

This guide was updated during the Fall 2008 semester. Although every attempt has been made to be inclusive of all University of Illinois at Urbana-Champaign faculty members who are involved in doing research related to Biofuels and Bioenergy Systems, omissions or errors may have been inadvertently included. To update an entry or to make additions, please contact:

Center for Advanced BioEnergy Research
Director: Hans P. Blaschek
34 Animal Sciences Laboratory
1207 W. Gregory Drive
Urbana, IL 61801 MC-630
blaschek@illinois.edu
217/244-9270

The most up-to-date iteration of this list can be found on the CABER website:

<http://www.bioenergy.uiuc.edu/education/faculty.html>

University of Illinois Urbana-Champaign Faculty and Staff with Interests in Biofuels/Bioenergy Systems

Imad L. Al-Qadi

Founder Professor Engineering
1207 Newmark, MC-250
(217) 265-0427
alqadi@illinois.edu
College: Engineering
Department: Civil and Environmental Engineering
Web (biography): <http://cee.uiuc.edu/Faculty/alqadi.htm>
Web (Depart.\research): <http://ict.uiuc.edu/>
Areas of interest: Pavements including material characterization, design, analysis, modeling, and performance prediction; Nondestructive testing and evaluation, instrumentation, full scale testing, geosynthetics in pavements, pavement fracture and reinforcement techniques

Mary P. Arends-Kuening

Associate Professor, Affiliate of the Center for Latin American and Caribbean Studies, the Center for South Asian and Middle Eastern Studies, and Women and Gender in Global Perspectives
408 Mumford Hall, MC-710
(217) 333-0753
marends@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): <http://www.ace.uiuc.edu/viewfaculty.aspx?netid=marends>

William E. Artz

Associate Professor of Food Processing
382D Agricultural Eng. Sciences Bldg., MC-646
(217) 333-9337
wartz@illinois.edu
College: ACES
Department: Food Science and Human Nutrition
Web (biography): http://fshn.illinois.edu/people/william_artz
Areas of interest: Development of Supercritical Fluid Extraction (SFE) and Supercritical Fluid Chromatography (SFC); tropical oils of Brazil and their use for food, fuel and pharmaceutical applications; biodiesel stability; biodiesel synthesis; alternative uses for glycerol, a biodiesel byproduct.

Werner Baer

Jorge Lemann Professor of Economics
218 David Kinley Hall, MC-707
(217) 333-8388
wbaer@illinois.edu
College: LAS
Department: Economics
Web (biography): <https://netfiles.uiuc.edu/wbaer/www/>

Fred E. Below

Professor of Plant Physiology
322A Edward R. Madigan Lab (ERML), MC-051
(217) 333-9745
fbelow@illinois.edu
College: ACES
Web (biography): <http://www.cropsci.uiuc.edu/faculty/below/>
Areas of interest: Nitrogen Use Efficiency; Grain Quality for Processing; Crop Production Management Evaluation.
Primary Disciplines: Off-Campus Graduate Studies, Crop Production, Molecular Biology and Physiology.

May Berenbaum

Jubilee Professor, Swanlund Chair and Head of Entomology
320 Morrill Hall, MC-118
(217) 333-7784
maybe@illinois.edu
College: LAS
Department: Entomology
Web (biography): <http://www.life.uiuc.edu/entomology/faculty/berenbaum.html>
Web (Depart.\research): <http://www.life.uiuc.edu/berenbaum/>
Areas of interest: Plant-insect interactions and biotic stress.

Larry Berger

Professor
264 Animal Sciences Laboratory, MC-630
(217) 333-2006
llberger@illinois.edu
College: ACES
Department: Animal Sciences
Web (biography): <http://www.ansci.uiuc.edu/directory/details.cfm?ID=4>
Areas of interest: Systems to optimize both food and fuel production from the same land/crop.
Primary Discipline: Animal Nutrition.

Carl Bernacchi

Assistant Professional Scientist, Assistant Professor for Plant Biology, Agricultural Meteorologist
612 Illinois State Water Survey, MC-674
(217) 333-8048
bernacch@illinois.edu
Colleges: LAS and State Water Survey
Department: Plant Biology
Web (biography): <http://www.life.uiuc.edu/plantbio/People/Faculty/Bernacchi.htm>

Kaustubh Bhalerao

Assistant Professor
376A Agricultural Eng. Sciences Bldg., MC-646
(217) 244-6569
bhalerao@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): <http://age-web.age.uiuc.edu/faculty/kb/kb.asp>
Areas of interest: Synthetic biology; pathway engineering; biofuel coproducts.

Hans Blaschek

Professor of Food Science and Human Nutrition, Institute for Genomic Biology (IGB), Assistant Dean and Director, Center for Advanced BioEnergy Research (CABER)
34 Animal Sciences Laboratory, MC-630
(217) 333-8224
blaschek@illinois.edu
College: ACES
Departments: CABER and Food Science and Human Nutrition
Web (biography): <http://www.bioenergy.uiuc.edu/about/staff.html>
Web (Depart.\research): <http://bioenergy.uiuc.edu/>
Areas of interest: Genomics of bio-butanol producing *Clostridium beijerinckii*; bioprocessing.
Primary Discipline: Microbiology.
Additional Comments: Blaschek is also the theme leader of the Biomass Conversion theme which is affiliated with the Institute for Genomic Biology.

Martin O. Bohn

Associate Professor
S-110 Turner Hall, MC-046
(217) 244-2536
mbohn@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography) <http://www.cropsci.uiuc.edu/faculty/bohn/>
Areas of interest: Corn breeding and genetics; genetic basis of biotic stress responses; cell wall biology in maize.
Primary Disciplines: Crops, Plant Biotechnology and Molecular Biology, Plant Breeding, Genetics and Cytogenetics.

Hans J. Bohnert

Professor of Crop Sciences and Director of the W.M. Keck Center

196 Edward R. Madigan Research Laboratory
(ERML), MC-051
(217) 265-5475

hbohnert@illinois.edu

Colleges: LAS & ACES

Departments: Plant Biology & Crop Sciences

Web (Depart.-Research): <http://www.life.uiuc.edu/bohnert/>

Areas of interest: Molecular genetics and genomics of abiotic stress tolerance in model species and crops; novel genes and pathways in extremophile plant species; predictive transcript co-expression networks; genetics of regulatory pathways in phenylpropanoid biosynthesis; correlations between lignin and cellulose biosynthesis.

German Bollero

Professor

W-201C Turner Hall, MC-046
(217) 333-9475

gbollero@illinois.edu

College: ACES

Department: Crop Sciences

Web (biography): <http://www.cropsci.uiuc.edu/faculty/bollero/>

Areas of interest: Biometrics and the application of quantitative methods to the analysis of ecological, physiological, environmental, and management aspects of cropping systems.

John Braden

Professor

304A Mumford Hall, MC-710
(217) 333-5501

jbb@illinois.edu

College: ACES

Department: Agricultural and Consumer Sciences

Web (biography): <http://www.ace.uiuc.edu/ViewFaculty.aspx?NetID=jbb>

Areas of interest: Water resources and policies; biofuels; bioproducts.

Carl A. Bradley

Assistant Professor

N-533B Turner Hall, MC-046
(217) 244-7415

carlbrad@illinois.edu

College: ACES

Department: Crop Sciences

Web (biography): <http://www.cropsci.uiuc.edu/faculty/carlbrad/>

Jeffrey Brawn

Professor

113 Shelford Vivarium, MC-444
(217) 244-5937

jbrawn@illinois.edu

Colleges: ACES & LAS

Departments: Natural Resources and Environmental Sciences and Animal Biology

Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=328>

Areas of interest: Conservation biology; biodiversity studies.

Richard Brazee

Associate Professor

W-523 Turner Hall, MC-046
(217) 333-6271

brazee@illinois.edu

College: ACES

Department: NRES

Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=251>

Areas of interest: Dynamic modeling.

Primary Disciplines: Economics, Mathematics.

David Bullock

Professor

420 Mumford Hall, MC-710
(217) 333-5510

dsbulloc@illinois.edu

College: ACES

Department: Agricultural and Consumer Economics

Web (biography): <http://www.ace.uiuc.edu/ViewFaculty.aspx?NetID=dsbulloc>

Areas of interest: Economics and policy of bioenergy.

Gustavo Caetano-Annoles

Professor of Bioinformatics
332 National Soybean Research Center, MC-637
(217) 333-8172
gca@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/gca/>
Areas of interest: Bioinformatics; interaction of plants and microbes.

Ximing Cai

Assistant Professor
2535 C Hydro Systems Laboratory, MC-250
(217) 333-4935
xmcai@illinois.edu
College: Engineering
Department: Civil and Environmental Engineering
Web (biography): <http://cee.uiuc.edu/Faculty/xmcai.htm>

Isaac Cann

Associate Professor of Animal Sciences and Microbiology
456 Animal Sciences Laboratory, MC-630
(217) 333-2090
icann@illinois.edu
College: ACES
Department: Animal Sciences
Web (biography): http://www.life.uiuc.edu/micro/faculty/faculty_cann.htm
Areas of interest: Molecular biology; enzymes of plant cell wall hydrolysis; microbiology.

Steven Clough

Assistant Professor
238 National Soybean Research Center, MC-637
(217) 265-6452
sjclough@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/clough/>
Areas of interest: Maize germplasm; pathology; genetics research.

John Cronan

Alumni Professor and Head of Microbiology,
Professor of Biochemistry
B103 Chemical & Life Sciences Laboratory, MC-123
(217) 333-7919
jecronan@illinois.edu
College: LAS
Department: Microbiology
Web (biography): http://www.life.uiuc.edu/biochem/f_cronan.html
Areas of interest: Biosynthesis; regulation and function of membrane lipids and fatty acid-derived coenzymes.

Munir Cheryan

Research Professor
110 Agriculture Bioprocessing Laboratory, MC-640
(217) 333-9332
mcheryan@illinois.edu
College: ACES
Department: Department of Food Science and Human Nutrition
Web (biography): http://fshn.illinois.edu/people/munir_cheryan
Web (Depart.\Research): <https://netfiles.uiuc.edu/mcheryan/www/>
Areas of interest: Membrane separations; bioprocessing; fermentation; corn refining; soybean processing; vegetable oil processing.
Primary Disciplines: Chemical engineering, food science.

Mark David

Professor
W-503 Turner Hall, MC-046
(217) 333-4308
mbdavid@illinois.edu
College: ACES
Department: Natural Resources and Environmental Sciences
Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=255>
Web (Depart.\Research): <https://netfiles.uiuc.edu/mbdavid/www/Biogeochemistry/index.htm>
Areas of interest: Water quality; nitrogen and phosphorus cycling; biogeochemistry; environmental impacts of biofuels.

Adam Davis

Assistant Professor Crop Sciences, Ecologist,
Invasive Weed Management Unit, USDA-
ARS, Faculty member, Program in Ecology and
Evolutionary Biology, Affiliate, Natural Resources and
Environmental Sciences
N-319 Turner Hall, MC-046
(217) 333-9654
asdavis1@illinois.edu or Adam.Davis@ars.usda.gov
College: ACES

Departments: Crop Sciences and Natural Resources
and Environmental Sciences
Web (biography): [http://arsweeds.cropsci.uiuc.edu/
davis.html](http://arsweeds.cropsci.uiuc.edu/davis.html)
Areas of interest: Crop production; weed management;
agroecology.

Jeff Dawson

Professor of Natural Resources and Environmental
Sciences
1316 Plant Sciences Laboratory, MC-634
(217) 333-9281
jdawson2@illinois.edu
College: ACES
Department: Natural Resources and Environmental
Sciences
Web (biography): [http://www.nres.uiuc.edu/Dynamic.
aspx?PageId=118&DirectoryId=401](http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=401)
Areas of interest: Soil biology; plant biology.

Evan DeLucia

Professor and Head of Plant Biology
265 Morrill Hall, MC-118
(217) 333-6177
delucia@illinois.edu
College: LAS
Department: Plant Biology
Web address (biography): [http://www.life.uiuc.edu/
plantbio/People/Faculty/Delucia.htm](http://www.life.uiuc.edu/plantbio/People/Faculty/Delucia.htm)
Web (Depart.\Research): [http://www.life.uiuc.edu/
delucia/](http://www.life.uiuc.edu/delucia/)
Areas of interest: Ecological consequences of large
scale deployment of bioenergy crops, including effects
on biodiversity and biogeochemical cycling of carbon,
water and nitrogen.

Brian W. Diers

Professor of Soybean Breeding
268 National Soybean Research Center, MC-637
(217) 265-4062
bdiers@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): [http://www.cropsci.uiuc.edu/faculty/
diers/](http://www.cropsci.uiuc.edu/faculty/diers/)

Michael C. Dietze

Assistant Professor of Plant Biology, Institute for
Genomic Biology, Energy Biosciences Institute
Lab: 183 Morrill Hall
Office: 1405 IGB
Mailing: 265 Morrill Hall, MC-116
(217) 265-8020
mdietze@illinois.edu
College: LAS
Department: Plant Biology
Web (biography): [http://www.life.uiuc.edu/plantbio/
People/Faculty/Dietze.htm](http://www.life.uiuc.edu/plantbio/People/Faculty/Dietze.htm)
Web (Depart.\Research): [http://www.life.uiuc.edu/
dietze](http://www.life.uiuc.edu/dietze)
Areas of interest: Regional agro-ecosystem modeling
using processes based biophysical models; biofuel
crop environmental suitability and ecosystem service
impacts; data assimilation and forecasting; trees and
perennial grasses.
Primary Disciplines: Ecology.

Robert E. Dunker

Agronomist, Crop Sciences Research and Education
Center (South Farms)
AW-101 Turner Hall, MC-046
(217) 244-5444
r-dunker@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): [http://www.cropsci.uiuc.edu/pros/r-
dunker/](http://www.cropsci.uiuc.edu/pros/r-dunker/)

Stephen A. Ebelhar

Agronomist, Dixon Springs Agricultural Center
Superintendent, Crop Sciences Division
Route 1, Box 256
Simpson, IL 62985
(618) 695-2441
sebelhar@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/pros/sebelhar/>
Web (Depart.\Research): <http://www.cropsci.uiuc.edu/research/rdc/dixonsprings/>
Areas of interest: Soil Fertility and Crop Production.

Steve Eckhoff

Professor of Agricultural and Biological Engineering
360 C Agricultural Eng. Sciences Bldg., MC-646
(217) 244-4022
seckhoff@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/S_Eckhoff
Areas of interest: Genomics and bioinformatics of energy crops and their pathogens; next-generation genome sequencing; canopy development and dynamics; functional genomics and resequencing.

A. Bryan Endres

Assistant Professor of Agricultural Law and Institute for Genomic Biology
326 Mumford Hall, MC-710
(217) 333-1828
bendres@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): <http://www.ace.uiuc.edu/ViewFaculty.aspx?NetID=bendres>
Web (Depart.\Research): <http://www.ace.uiuc.edu/index.aspx>
Areas of interest: Biofuel Law & Regulation; Intellectual Property; Biotechnology.
Primary Disciplines: Law.

Hadi S. Esfahani

Professor, Interim Director for Global Studies,
Interim Director for Center for South Asian and Middle Eastern Studies
210 David Kinley Hall, MC-706
(217) 333-2681
esfahani@illinois.edu
College: LAS
Department: Economics
Web (biography): <https://netfiles.uiuc.edu/esfahani/www/>

Hao Feng

Associate Professor of Food and Bioprocess Engineering
382F Agricultural Eng. Sciences Bldg., MC-646
(217) 244-2571
haofeng@illinois.edu
College: ACES
Department: Food Science and Human Nutrition
Web (biography): <http://fshn.illinois.edu/people/haofeng>
Areas of interest: Power ultrasound as a new food and bioprocessing modality; conversion of biomass for production of biofuel and value-added products.

Fabián Fernández

Assistant Professor of Soil Fertility and Plant Nutrition
N-315 Turner Hall, MC-046
(217) 333-4426
fernande@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/fernandez/>
Primary Disciplines: Crop Production, Crops.

Robert J. Finley

Center Director, Energy and Earth Resources Center,
Principle Geologist
Illinois Geological Survey, Institute of Natural Resource Sustainability
361 Natural Resources Building, MC-650
finley@illinois.edu
(217) 244-8389
College: Illinois State Geological Survey
Web (biography): <http://www.isgs.uiuc.edu/about-isgs/staff-dir/f/finley.shtml>

Ted L. Funk

Extension Specialist, Agricultural Engineering and
Assistant Professor
332 E Agricultural Eng. Sciences Bldg., MC-644
(217) 333-9313
funkt@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/T_Funk
Web (Depart.\Research): <http://abe.illinois.edu/>
Areas of interest: Manure management and
conversion; farmstead energy efficiency, home energy.

John Gerlt

Professor of Biochemistry, Chemistry, and Biophysics
and Gutgsell Endowed Chair
301A Roger Adams Laboratory, B4, MC-712
(217) 244-7414
j-gerlt@illinois.edu
College: LAS
School: Molecular and Cellular Biology
Department: Biochemistry
Web (biography): http://www.life.uiuc.edu/biochem/f_gerlt.html
Areas of interest: Mechanisms of enzyme-catalyzed
reactions; functional genomics; directed evolution and
rational design of “new” enzymes.

Peter Goldsmith

Soybean Industry Endowed Associate Professor of
Agricultural and Consumer Economics and Executive
Director of the National Soybean Research Laboratory
326 Mumford Hall, MC-710
(217) 333-5131
pgoldsmi@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): <http://www.ace.uiuc.edu/ViewFaculty.aspx?NetID=pgoldsmi>
Areas of interest: Biofuels business economics and
strategy.

Michael E. Gray

Professor of Agricultural Entomology, Department of
Crop Sciences; Interim Assistant Dean, Agriculture
and Natural Resources Extension
N-305 Turner Hall, MC-046
(217) 333-6652
megray@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/mgray/>
Areas of interest: Integrated Pest Management; crop
production; economic entomology; field crop insect
ecology.
Primary Disciplines: Crop Production, Integrated Pest
Management.

Tony Grift

Associate Professor of Agricultural and Biological
Engineering
360J Agricultural Eng. Sciences Bldg., MC-646
(217) 333-2854
grift@illinois.edu
College: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): <http://age-web.age.uiuc.edu/faculty/teg/teg.asp>
Areas of interest: Advanced machinery for biosystems
applications.

Nigel Goldenfeld

Professor of Physics and Institute for Genomic
Biology (IGB)
Loomis Laboratory
3-113 ESB, MC-704
(217) 333-8027
nigel@illinois.edu
College: Engineering
Department: Physics
Web (biography): <http://guava.physics.uiuc.edu/~nigel/>
Web (Depart.\Research): <http://guava.physics.uiuc.edu/>
Areas of interest: Quantitative biology; ecology;
biocomplexity; microbial ecology and evolution.

Howard R Guenther

Associate Vice Chancellor for Research
Office of the Vice Chancellor For Research
Swanlund Admin Bldg., MC-304
(217) 333-0030
hguenthe@illinois.edu
College: Office of the Vice Chancellor for Research

Alan Hansen

Associate Professor of Agricultural and Biological
Engineering
360P Agricultural Eng. Sciences Bldg., MC-644
(217) 333-2969
achansen@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web address (biography): http://abe.illinois.edu/faculty/A_Hansen
Areas of interest: Biofuels combustion research;
biodiesel.

Robert J. Hauser

Professor and Head, Department of Agricultural and
Consumer Economics, Interim Director for Interna-
tional Affairs/ACES Global Connect
332 Mumford Hall, MC-710
(217) 244-2807
r-hauser@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): <http://www.ace.uiuc.edu/viewFaculty.aspx?NetID=r-hauser>

Geoffrey J.D. Hewings

Director, Regional Economics Applications
Laboratory; Professor, Geography, Economics, Urban
and Regional Planning, Agricultural and Consumer
Economics and Institute of Government and Public
Affairs
318 Davenport Hall, MC-150
(217) 333-4740
hewings@illinois.edu
College: LAS
Department: Geography
Web (biography): <http://www.geog.uiuc.edu/people/hewings>
Areas of interest: Transportation and biofuels
evaluation.

Robert G. Hoeft

Head, Department of Crop Sciences,
Professor of Soil Fertility
AW-101 Turner Hall, MC-046
(217) 333-9480
rhoeft@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/hoeft/>
Primary Disciplines: Soil Fertility, Outreach and
Extension Programs.

Matthew Hudson

Assistant Professor of Genomics
334 National Soybean Research Center, MC-637
(217) 244-8096
mhudson@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/mhudson/>
Web (Depart.\Research): <http://stan.cropsci.uiuc.edu/>
Areas of interest: Light-regulated signaling networks
in plants; bioinformatics; functional genomics.
Primary Disciplines: Bioinformatics, Biological
Sciences, Genomics, Plant Biotechnology and
Molecular Biology, Plant Breeding, Genetics and
Cytogenetics.

Atul Jain

Associate Professor
105 S. Gregory St., MC-223
(217) 333-2128
jain1@illinois.edu
College: LAS
Department: Atmospheric Science
Web (biography): <http://www.atmos.uiuc.edu/people/jain.html>

Wesley M Jarrell

Professor, Interim Director for Environmental Change Institute, Research Professor for Information Trust Institute, Interim Coordinator for the ACES Field Stations

S-334 Turner Hall, MC-047

(217) 244-0384

wjarrell@illinois.edu

College: ACES

Department: Natural Resources & Environmental Science

Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=442>

Areas of interest: Soil Biology, Soil & Water Quality, Policy & Law, Plant Ecology & Natural Resource Management, Food Crop Systems.

Yong-Su Jin

Assistant Professor, Institute for Genomic Biology

3402 Institute for Genomic Biology, MC-195

(217) 333-7981

ysjin@illinois.edu

College: ACES

Department: Food Science and Human Nutrition

Web (biography): http://fshn.illinois.edu/people/yong-su_jin

Areas of interest: Metabolic engineering, strain improvement through systems and synthetic biology, yeast sugar metabolism.

G. Richard “Dick” Johnson

Professor

S-120 Turner Hall, MC-046

(217) 333-4255

grjohnso@illinois.edu

College: ACES

Department: Crop Sciences

Web (biography): <http://www.cropsci.uiuc.edu/faculty/grjohnso/>

Areas of interest: Genetics & Plant Breeding.

Primary Disciplines: Plant Breeding and Genetics.

Jack Juvik

Professor of Plant Genetics

307 Edward R. Madigan Research Laboratory

(ERML), MC-051

(217) 333-4777

juvik@illinois.edu

College: ACES

Department: Natural Resources and Environmental Sciences

Web (biography): http://miscanthus.uiuc.edu/?page_id=47

Areas of interest: Miscanthus breeding and improvement.

Neil Kelleher

Associate Professor of Chemistry, Institute for Genomic Biology (IGB)

53 B Roger Adams Laboratory, Box 47-5, MC-712

(217) 244-3927

nkellehe@illinois.edu

College: LAS

Department: Chemistry

Web (biography): http://www.scs.uiuc.edu/chem/faculty/Neil_Kelleher.html

Web (Depart.\Research): <http://kelleher.scs.uiuc.edu/>

Areas of interest: proteomics and metabolomics.

Angela Kent

Assistant Professor of Natural and Environmental Sciences

N-215 Turner Hall, MC-046

(217) 333-4216

akent@illinois.edu

College: ACES

Department: Natural Resources and Environmental Sciences

Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=478>

Web (Depart.\Research): <http://microbes.nres.uiuc.edu>

Areas of interest: Microbial ecology and environmental microbiology; using molecular tools to investigate the contribution of microbial communities to important ecosystem processes such as nutrient cycling, and seeking applications of knowledge to manage or improve microbial processes in the environment.

Jay Kesan, J.D.

Professor of Law, Director of U of I Program in Intellectual Property & Technology Law;
Mildred Van Voorhis Jones Faculty Scholar
Law Building, MC-594
(217) 333-7887
kesan@illinois.edu
College: Law
Web (biography): <http://www.law.uiuc.edu/faculty/directory/JayKesan>
Areas of interest: Biofuels Law and Regulation; Intellectual Property; Patent Law; Agricultural Biotechnology Regulation.

Madhu Khanna

Professor of Agricultural and Consumer Economics, Institute for Genomic Biology (IGB)
440 Mumford Hall, MC-710
(217) 333-5176
khanna1@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): <http://www.ace.uiuc.edu/ViewFaculty.aspx?NetID=khanna1>
Areas of interest: Modeling and economics of biofuels supply chain; land use modeling; economics and environmental effects of biofuel production.

Gregory Knott

Associate Director of the Center for Advanced BioEnergy Research (CABER)
258 Bevier Hall, MC-182
(217) 333-9334
gknott63@illinois.edu
College: ACES
Department: Food Science and Human Nutrition and CABER
Web (biography): http://www.aces.uiuc.edu/Utilities/view_person.cfm?ID=24908
Areas of interest: Facilitation of University of Illinois campus bioenergy-related activities.

Frederic L. Kolb

Professor of Plant Breeding
AE-120 Turner Hall, MC-046
(217) 333-9485
f-kolb@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/kolb/>
Primary Disciplines: Small Grain Breeding and Genetics.

Kurt Kwast

Associate Professor of Molecular and Integrative Physiology
524 Burrill Hall, MC-114
(217) 244-3122
kwast@illinois.edu
College: LAS
Department: Molecular and Integrative Physiology
Web (biography): <http://www.mcb.uiuc.edu/faculty/profile/1123>
Areas of interest: Transcriptional regulation of oxygen-responsive genes in yeast.

Dimitrios Kyritsis

Associate Professor of Mechanical Science and Engineering
130 Mechanical Engineering Building, MC-244
(217) 333-7794
kyritsis@illinois.edu
College: Engineering
Department: Mechanical Science and Engineering
Web (biography): http://www.mechse.uiuc.edu/content/directory/faculty/profile.php?user_id=43
Web (Depart. Research): <http://www.mechse.uiuc.edu/research/kyritsis>
Areas of interest: Biofuel-related research with an emphasis on biofuel combustion and ethanol; butanol electrosprays within the framework of the federal Department of Energy (DOE)-supported Graduate Automotive Technology Education (GATE) Center of Excellence on Advanced Automotive Bio-fuel Combustion Engines.
Primary Disciplines: Laser diagnostics, gaseous and catalytic combustion, electrostatic atomization.

Chia-Fon Lee

Professor of Mechanical Science and Engineering
132 Mechanical Engineering Building, MC-244
(217) 333-5879
cflee@illinois.edu
College: Engineering
Department: Mechanical Science and Engineering
Web (biography): http://www.mechse.uiuc.edu/content/directory/faculty/profile.php?user_id=45
Areas of interest: Biofuels combustion research.

DoKyoung “D.K.” Lee

Assistant Professor
S-320 Turner Hall, MC-046
(217) 333-7736
leedk@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/leedk/>
Areas of interest: Developing the best agronomic management practices for sustainable herbaceous biomass feedstock production of perennial grasses.
Primary Disciplines: Crop Production, Perennial Crop Production, Biomass and Bioenergy Crop Production.

Timothy C. Lindsey

Associate Director
Illinois Sustainable Technology Center
One E Hazelwood, MC-676
(217) 333-8940
tlindsey@illinois.edu
College: Illinois Sustainable Technology Center
Department: Technical Assistance
Web (biography): http://www.istc.illinois.edu/about/staff_tim_lindsey.cfm
Web (Depart.\Research): <http://www.istc.illinois.edu/about/>
Areas of interest: Conversion of wastes and by-products to biofuels, Biofuels Industry Sustainability.
Primary Disciplines: Technology diffusion, chemical and environmental engineering.

Stephen Long

Robert Emerson Professor of Crop Sciences, Institute for Genomic Biology (IGB); Resident Scientist for the National Center for Supercomputing Applications
379 Edward R. Madigan Research Laboratory (ERML), MC-051
(217) 333-2487
slong@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/long/>
Areas of interest: Miscanthus; plant growth; climate change.
Primary Disciplines: Plant Physiology, Environmental Science.

Vera Lozovaya

Research Professor of Crop Sciences
288 Edward R. Madigan Research Laboratory (ERML), MC-051
(217) 333-9465
lozovaya@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): http://miscanthus.uiuc.edu/?page_id=46
Areas of interest: Miscanthus; modification of cell wall phenolics; biochemical analyses of phenylpropanoids.

Roderick Mackie

Professor of Animal Sciences, Institute for Genomic Biology (IGB)
458 Animal Sciences Laboratory, MC-630
(217) 244-2526
r-mackie@illinois.edu
College: ACES
Department: Animal Sciences
Web (biography): <http://www.nutrsci.uiuc.edu/faculty/profile.cfm?id=62>
Areas of interest: Molecular microbial ecology of the gastrointestinal tract; functional and comparative genomics of gut bacteria; comparative digestive physiology and metabolism.

Richard Masel

Fox Family Professor of Chemical and Biomolecular Engineering

213 Roger Adams Laboratory, Box C3, MC-712

(217) 333-6841

r-masel@illinois.edu

Colleges: LAS and Engineering

Department: Chemical and Biomolecular Engineering

Web (biography): <http://www.cheme.uiuc.edu/Faculty/masel.php>

Areas of interest: Energy systems and micro fuel cells; cellulose depolymerization.

Michael Mazzocco

Associate Professor, Food and Agribusiness Management

326 Mumford Hall, MC-710

(217) 333-1816

mmazzocc@illinois.edu

College: ACES

Department: Agricultural and Consumer Economics

Web (biography): <https://netfiles.uiuc.edu/mmazzocc/www/>

Area of interest: Decision analysis, strategy implementation, operations management and economic analysis of firms in food and agribusiness sector.

Gregory McIsaac

Associate Professor

S-524 Turner Hall, MC-047

(217) 333-9411

gmcisaac@illinois.edu

College: ACES

Department: Natural Resources and Environmental Sciences

Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=287>

Areas of interest: Hydrology; nutrient biogeochemistry.

William W. Metcalf

Professor of Microbiology and Institute for Genomic Biology (IGB)

B103 Chemical & Life Sciences Building, MC-110

(217) 244-1943

metcalf@illinois.edu

College: LAS

Department: Microbiology

Web (biography): http://www.life.uiuc.edu/micro/faculty/faculty_metcalf.htm

Areas of interest: Molecular genetics; biochemistry of methanogenic archaea.

Michael Miller

Assistant Professor of Food Science and Human Nutrition

439 Bevier Hall, MC-182

(217) 244-1973

mille216@illinois.edu

College: ACES

Department: Food Science and Human Nutrition

Web (biography): http://fshn.illinois.edu/people/michael_miller

Areas of interest: Lactic acid bacteria, gastrointestinal microbiology, and bacteriophage ecology.

Ray Ming

Associate Professor of Plant Biology, Institute for Genomic Biology (IGB)

148 Edward R. Madigan Research Laboratory (ERML), MC-051

(217) 333-1221

rayming@illinois.edu

College: LAS

Department: Plant Biology

Web (biography): <http://www.life.uiuc.edu/plantbio/People/Faculty/Ming.htm>

Area of interest: Evolution of primitive sex chromosomes in plants; genetics of biomass production in sugarcane.

Stephen Moose

Associate Professor of Crop Sciences and Institute for Genomic Biology (IGB)

389 Edward R. Madigan Research Laboratory

(ERML), MC-051

(217) 244-6308

smoose@illinois.edu

College: ACES

Department: Crop Sciences

Web (biography): <http://www.cropsci.uiuc.edu/faculty/moose/>

Web (Depart.\Research): <http://nitrogenes.cropsci.uiuc.edu/>

Areas of interest: Maize functional genomics; molecular regulation of genetic pathways.

Primary Disciplines: Maize Functional Genetics, Corn Genomics.

Eberhard Morgenroth

Associate Professor of Civil and Environmental Sciences

3219 Newmark Civil Engineering Lab, MC-250

(217) 333-6965

emorgenr@illinois.edu

Colleges: Engineering and ACES

Departments: Civil and Environmental Engineering and Animal Sciences

Web (biography): <http://cee.uiuc.edu/Faculty/emorgenr.htm>

Web (Depart.\Research): <http://cee.uiuc.edu/research/morgenroth/>

Areas of interest: Mixed culture biotechnology; membrane bioreactors; wastewater treatment and reuse; biological hydrogen production.

Scott A. Morris

Associate Professor of Food Engineering and Packaging, Associate Professor of Agricultural Engineering

382G Agricultural Eng. Sciences Bldg., MC-646

(217) 333-9330

smorris@illinois.edu

College: ACES

Department: Food Science and Human Nutrition

Web (biography): http://fshn.illinois.edu/people/scott_morris

Areas of interest: Food and bioproduct processing optimization for sustainability and energy conservation. Optimization of alternative fuels production and transportation systems. Environmental and economic impact assessment of alternative fuels production and use.

Primary Disciplines: Engineering and systems optimization; high speed manufacturing.

Richard Mulvaney

Professor of Natural and Environmental Science

S-220 Turner Hall, MC-046

(217) 333-9467

mulvaney@illinois.edu

College: ACES

Department: Natural Resources and Environmental Sciences

Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=289>

Web (Depart.\Research): <http://illinoissoilntest.nres.uiuc.edu/>

Areas of interest: Soil biology; soil and water quality.

Rita Mumm

Associate Professor, Director of the Plant Breeding Center Associate Professor of Quantitative Genetics and Plant Breeding

AE-110 Turner Hall, MC-046

(217) 244-9497

ritamumm@illinois.edu

College: ACES

Department: Crop Sciences

Web (biography): <http://www.cropsci.uiuc.edu/faculty/ritamumm/>

Areas of interest: Genomic applications to crop improvement, gene regulation, efficient plant breeding strategies, deployment of transgenic traits.

Primary Disciplines: Plant Breeding, Genetics, Quantitative Genetics, Functional Genomics.

Emerson Nafziger

Professor of Crop Sciences
W-301 Turner Hall, MC-046
(217) 333-9658
ednaf@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://cropsoci.uiuc.edu/faculty/nafziger/index.cfm>
Areas of interest: Maize crop management; crop production; grain crop management.

Satish Nair

Assistant Professor of Biochemistry
430 Roger Adams Laboratory, MC-712
(217) 333-0641
s-nair@life.illinois.edu
College: LAS
Department: Biochemistry
Web (biography): <http://www.mcb.uiuc.edu/faculty/profile/987>
Areas of interest: Structural biology; biological functions of macromolecules.
Primary Disciplines: Biochemistry and Biophysics.

Terry L. Niblack

Professor
N-531 Turner Hall, MC-046
(217) 244-5940
tniblack@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsoci.uiuc.edu/faculty/niblack/>
Web (Depart.\Research): <http://www.cropsoci.edu>
Areas of interest: soybean cyst nematode, maize-parasitic nematodes.
Primary Disciplines: Nematology, Plant Pathology, Extension.

Hayri Onal

Professor
306 Mumford Hall, MC-710
(217) 333-5507
h-onal@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): <http://www.ace.uiuc.edu/viewFaculty.aspx?NetID=h-onal>

Donald Ort

Professor of Plant Biology, Institute for Genomic Biology (IGB); USDA/ARS Photosynthesis Research Unit; Adjunct Professor for Crop Sciences
1406 Institute for Genomic Biology, MC-195
(217) 333-2093
d-ort@illinois.edu
College: LAS
Department: Plant Biology
Web (biography): <http://www.life.uiuc.edu/plantbio/People/Faculty/Ort.htm>
Web (Depart.\Research): <http://www.life.uiuc.edu/ort/>
Areas of interest: Plant molecular biology and physiology; photosynthesis.

Yanfeng Ouyang

Assistant Professor
1209 Newmark Laboratory, MC-250
(217) 333-9858
yfouyang@illinois.edu
College: Engineering
Department: Civil and Environmental Engineering
Web (biography): <http://cee.uiuc.edu/Faculty/yfouyang.htm>
Areas of interest: Transportation systems analysis, Network optimization, supply chain and logistics systems for biofuels.

Graciela Padua

Research Associate Professor of Food Science and Human Nutrition
382 L Agricultural Eng. Sciences Bldg., MC-646
(217) 333-9336
gwpadua@illinois.edu
College: ACES
Department: Food Science & Human Nutrition
Web (biography): http://fshn.illinois.edu/people/graciela_padua
Areas of interest: Bioproducts and co-product utilization.

Lyle E. Paul

Agronomist
Northern Illinois Agronomy Research Center
14509 University Rd
Shabbona, IL 60550
(815) 824-2029
lylepaul@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/pros/lylepaul/>

Michael J. Plewa

Professor of Genetics and UIUC University Scholar
364 National Soybean Research Center, MC-635
(217) 333-3614
mplewa@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/plewa/>
Primary Disciplines: Mutation Genetics, Maize Genetics, Genetic Toxicology, Environmental Mutagenesis, Life Sci: Microbiology.

Archie R. Portis Jr.

Affiliate, Department of Plant Biology and USDA/ARS
Professor, Department of Crop Science
Program in Physiological & Molecular Plant Biology
193a Edward R. Madigan Laboratory (ERML),
MC-051
(217) 244-3083
arportis@illinois.edu
Colleges: ACES, LAS
Departments: Crop Sciences, Plant Biology
Web (biography): <http://www.life.uiuc.edu/plantbio/People/Faculty/Portis.htm> or <http://www.cropsci.uiuc.edu/faculty/portis/>
Primary Disciplines: Plant Molecular Biology and Physiology, USDA-ARS: Photosynthesis.

Nathan Price

Professor of Chemical and Biomolecular Engineering
119 Roger Adams Laboratory, Box C-3, MC-712
(217) 244-0596
ndprice@illinois.edu
Colleges: LAS and Engineering
Department: Chemical and Biomolecular Engineering
Web (biography): <http://www.chemeng.uiuc.edu/Faculty/price.php>
Web (Depart.\Research): <http://www.igb.uiuc.edu/labs/price/>
Areas of interest: Computational and systems biology; genome scale metabolic networks.

Christopher V. Rao

Assistant Professor, Beckman Institute
211 Roger Adams Lab, Box C-3, MC-712
(217) 244-2247
cvrao@illinois.edu
Colleges: LAS, Engineering
Department: Chemical and Biomolecular Engineering
Web (biography): <http://www.chemeng.uiuc.edu/Faculty/rao.php>
Web (Depart.\Research): http://openwetware.org/wiki/Rao_Lab

Kent Rausch

Associate Professor of Agricultural and Biological Engineering
360 E Agricultural Engineering Sciences Building
(217) 265-0697
krausch@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/K_Rausch
Web (Depart.\Research): <http://www.abe.illinois.edu>
Areas of interest: biofuel co-products research.
Primary Disciplines: process research, membrane separations

Thomas B. Rauchfuss

Professor
A328 Chemical & Life Sciences Lab, Box 12-6,
MC-712
(217) 333-7355
rauchfuz@illinois.edu
College: LAS
Department: Chemistry
Web (biography): http://www.scs.uiuc.edu/chem/faculty/Thomas_Rauchfuss.html
Web (Depart.\Research): <http://www.scs.uiuc.edu/rauchfus/>

Luis Rodríguez

Assistant Professor of Agricultural and Biological Engineering
376 C Agricultural Eng. Sciences Bldg., MC-644
(217) 333-2694
lfr@illinois.edu
Colleges: ACES and Engineering
Departments: Agricultural and Biological Engineering, Information Trust Institute
Web (biography): http://abe.illinois.edu/faculty/L_Rodriguez
Web (Depart.\Research): http://biomass.age.uiuc.edu/index.php/Main_Page
Areas of interest: Systems engineering and analysis of biological systems; sustainability.

Marty Sachs

Crop Sciences and USDA/ARS
S-108 Turner Hall, MC-046
(217) 244-0864
msachs@illinois.edu
College: ACES
Department: Crop Sciences
Web (Depart.\Research): <http://maizecoop.crops.uiuc.edu/marty.php>
Areas of interest: Maize genetics, plant stress.

Jürgen Scheffran

ACDIS Research Scientist, Adjunct Associate Professor Departments of Political Science and Atmospheric Sciences, Assistant Director for education for the Center for Advanced BioEnergy Research (CABER)
359 Armory Building, MC-533
(217) 244-0463
scheffra@illinois.edu
Departments: CABER; Departments of Political Science and Atmospheric Sciences, Program in Arms Control, Disarmament and International Security (ACDIS)
Web (biography): <http://www.bioenergy.uiuc.edu/about/staff.html#scheffran>
Web (biography): <http://www.acdis.uiuc.edu/About/Staff/showstaff.php?id=6>
Web (Depart.\Research): <http://www.renewable-energy.uiuc.edu>
Areas of interest: Socio-economics and sustainability of biofuels, with focus on emission reductions, land-use modeling, transportation and biorefineries; integrated assessment of climate change and life-cycle assessment of energy systems; coordination of Renewable Energy Initiative at UIUC; education, outreach and training.

Lance Schideman

Assistant Professor
332N Agricultural Engineering Sciences Building,
(217) 244-8585
schidema@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/L_Schideman

Bob Schooley

Assistant Professor of Natural Resources and Environmental Sciences
W-401B Turner Hall, MC-047
(217) 244-2729
schooley@illinois.edu
College: ACES
Department: Natural Resources and Environmental Sciences
Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=1106>
Areas of interest: Conservation biology.

Edmund Seebauer

James W. Westwater Professor and Head of Chemical and Biomolecular Engineering
207 Roger Adams Laboratory, MC-712
(217) 333-4402
eseebaue@illinois.edu
Colleges: LAS and Engineering
Department: Chemical and Biomolecular Engineering
Web (biography): <http://www.chemeng.uiuc.edu/Faculty/seebauer.php>
Web (Depart.\Research): <http://www.scs.uiuc.edu/~eseebauer/>
Areas of interest: Engineering devices for use with alternative fuels.

Mark Shannon

James W. Bayne Professor of Mechanical Science and Engineering and Director of the WaterCAMPWS Center
2132 Mechanical Engineering Laboratory, MC-244
(217) 244-1545
mshannon@illinois.edu
College: Engineering
Department: Mechanical Science and Engineering
Web (biography): http://www.mechse.uiuc.edu/content/directory/faculty/profile.php?user_id=57
Web (Depart.\Research): <http://www.mechse.uiuc.edu/research/shannon/>
Areas of interest: Micro-fuel cells; water use.

Anne Silvis

Extension Specialist in Human and Community Development
222 Bevier Hall, MC-182
(217) 333-5126
asilvis@illinois.edu
College: ACES
Department: Human and Community Development
Web (biography): http://www.hcd.uiuc.edu/about/faculty_staff/a_silvis.html
Areas of interest: Rural development and sustainable agriculture.

Clifford E. Singer

Professor
111D Talbot Laboratory, MC-234
(217) 333-1814
csinger@illinois.edu
College: Engineering
Departments: Nuclear, Plasma, and Radiological Engineering and Political Science
Web (biography): <http://www.ne.uiuc.edu/faculty/singer.php>
Areas of interest: Energy econometrics.

Vijay Singh

Associate Professor
360g Agricultural Eng. Sciences Bldg., MC-644
(217) 333-9510
vsingh@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/V_Singh
Areas of interest: Grain bioprocessing technologies for ethanol production; process design and economic analysis; recovery of value-added coproducts; applied enzyme research in bioprocessing.

Murugesu Sivapalan

Professor of Geography and Civil & Environmental Engineering
2524 Hydrosystems Laboratory MC-304
220 Davenport Hall, Department of Geography
(217) 333-2675 or 333-5150
sivapala@illinois.edu
Colleges: Engineering and LAS
Departments: Civil & Environmental Engineering and Geography
Web (biography): <http://cee.uiuc.edu/Faculty/sivapala.htm>
Areas of interest: Watershed Hydrology: Predictions in Ungauged Basins, Modeling of Water Balance and Water Quality, New Hydrologic Theories.
Primary Disciplines: Hydrology, Environmental Engineering, Physical Geography.

Steve Sonka

Professor of Agricultural and Consumer Economics
and Interim Vice Chancellor for Public Engagement
304 Swanlund Administration Building
(217) 333-9525
ssonka@illinois.edu
Web (biography): [http://www.ace.uiuc.edu/
ViewFaculty.aspx?NetID=ssonka](http://www.ace.uiuc.edu/ViewFaculty.aspx?NetID=ssonka)
Areas of interest: Anticipation of strategic change
associated with growth of biofuels and the
bioeconomy, with emphasis on implications for global
food and agricultural systems.

Ashley Spies

Research Assistant Professor of Biochemistry
318g Roger Adams Laboratory, MC-712
(217) 244-3529
aspies@illinois.edu
College: LAS
Department: Biochemistry
Web (biography): [http://www.mcb.uiuc.edu/faculty/
profile/1409](http://www.mcb.uiuc.edu/faculty/profile/1409)
Areas of interest: Enzyme mechanisms; catalysis.

Kevin L. Steffey

Professor and Extension Entomologist
N-307 Turner Hall, MC-046
(217) 244-2128
ksteffey@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): [http://www.cropsci.uiuc.edu/
faculty/steffey/](http://www.cropsci.uiuc.edu/faculty/steffey/)
Areas of interest: Insect management in field crops,
integrated pest management, surveys of insects in
agricultural systems.

Hans Stein

Associate Professor of Animal Sciences
132 Animal Sciences Laboratory, MC-630
(217) 333-0013
hstein@illinois.edu
College: ACES
Department: Animal Sciences
Web (biography): [http://www.nutrsci.uiuc.edu/faculty/
profile.cfm?id=107](http://www.nutrsci.uiuc.edu/faculty/profile.cfm?id=107)
Areas of interest: Co-products utilization.

J. Ryan Stewart

Assistant Professor of Natural Resources and
Environmental Sciences
1011 Plant Sciences Laboratory, MC-634
(217) 265-5461
rstewart@illinois.edu
College: ACES
Department: Natural Resources and Environmental
Sciences
Web (biography): [http://www.nres.uiuc.edu/Dynamic.
aspx?PageId=118&DirectoryId=1060](http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=1060)
Web (Depart.\Research): <http://ecohort.nres.uiuc.edu/>
Areas of interest: Plant water relations; environmental
stress physiology; invasive plant biology; plant
propagation.

Gale E. Summerfield

Director, Women & Gender in Global Perspectives
Program, Associate Professor, Human and Community
Development, Associate Professor, Agricultural and
Consumer Economics
320 International Studies Building, MC-480
(217) 333-1977
summrfld@illinois.edu
College: ACES, Office of the Associate Provost for
International Affairs
Department: Human & Community Development,
International Programs and Studies
Web (biography): [http://www.ips.uiuc.edu/wggp/
gsummerfield.shtml](http://www.ips.uiuc.edu/wggp/gsummerfield.shtml)
or [http://www.hcd.uiuc.edu/about/faculty_
staff/
g_summerfield.html](http://www.hcd.uiuc.edu/about/faculty_staff/g_summerfield.html)

Robert L. Thompson

Professor of Agricultural and Consumer Economics
and Gardner Endowed Chair in Agricultural Policy
412 Mumford Hall, MC-710
(217) 333-1313
rlt@illinois.edu
College: ACES
Department: Agricultural and Consumer Economics
Web (biography): [http://www.farmdoc.uiuc.edu/
thompson/](http://www.farmdoc.uiuc.edu/thompson/)
Areas of interest: Biofuels in 2007 Farm Bill;
economics of biofuels; impact of biofuels development
on international agricultural trade; the coming global
conflict between fuel and food from agriculture.

Lei Tian

Associate Professor
360L Agricultural Eng. Sciences Bldg., MC-644
(217) 333-7534
lei-tian@illinois.edu
College: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/L_Tian

K.C. Ting

Professor and Head of Agricultural and Biological Engineering
338 Agricultural Eng. Sciences Bldg., MC-644
(217) 333-3570
kcting@illinois.edu
College: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/KC_Ting
Web (Depart.\Research): <http://abe.illinois.edu>
Areas of interest: Automation; systems informatics and analysis; alternative energy; decision support; engineering solutions for biomass feedstock production.
Primary Disciplines: Agricultural and biological engineering.

Tom Voigt

Associate Professor
S-416 Turner Hall, MC-047
(217) 333-7847
tvoigt@illinois.edu
College: ACES
Department: Natural Resources and Environmental Sciences
Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=314>
Web (Depart.\Research): <http://miscanthus.uiuc.edu/>
Web (Depart.\Research): <http://www.turf.uiuc.edu/>
Areas of interest: Grass production and management systems.

Michelle Wander

Associate Professor of Natural Resources and Environmental Sciences
N-225 Turner Hall, MC-047
(217) 333-9471
mwander@illinois.edu
College: ACES
Department: Natural Resources and Environmental Sciences
Web (biography): <http://www.nres.uiuc.edu/Dynamic.aspx?PageId=118&DirectoryId=315>
Areas of interest: Soil biology; food crop systems.

Xinlei Wang

Associate Professor of Agricultural and Biological Engineering
332C Agricultural Eng. Sciences Bldg., MC-644
(217) 333-4446
xwang2@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/X_Wang
Web (Depart.\Research): <http://abe.illinois.edu>
Areas of interest: Renewable energy systems; building energy efficiency; air quality and emission control.
Primary Disciplines: Agricultural engineering, mechanical engineering and environmental engineering.

Bryan A. White

Professor of Animal Sciences and Institute for Genomic Biology (IGB)
460 Animal Sciences Laboratory, MC-630
(217) 333-2091
bwhite44@illinois.edu
College: ACES
Departments: Animal Sciences and IGB
Web (biography): <http://www.nutrsci.uiuc.edu/faculty/profile.cfm?id=80>
Areas of interest: Microbiology, genomics and metagenomics of plant cell wall hydrolysis in the rumen; cellulosome and glycoside hydrolase engineering.

Jack Widholm

Emeritus Professor of Crop Sciences
285A Edward R. Madigan Research Laboratory
(ERML), MC-051
(217) 333-9462
widholm@illinois.edu
College: ACES
Department: Crop Sciences
Web (biography): <http://www.cropsci.uiuc.edu/faculty/widholm/>
Areas of interest: Plant physiology and molecular biology, transformation of Miscanthus, soybeans, maize; Arabidopsis and tobacco and metabolomics.

Arthur R. Zangerl

Senior Research Scientist
320 Morrill Hall, MC-118
(217) 333-7784
azangerl@life.uiuc.edu
College: LAS
Department: Entomology
Web (biography): <http://www.life.uiuc.edu/entomology/faculty/zangerl.html>

Qin Zhang

Associate Professor of Agricultural and Biological Engineering
360N Agricultural Eng. Sciences Bldg., MC-644
(217) 333-9419
qinzhang@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): http://abe.illinois.edu/faculty/Q_Zhang
Areas of interest: Computer-aided farming systems; biodiesels; feedstock harvest for biofuels.
Primary Discipline: Agricultural engineering.

Yuanhui Zhang

Professor of Agricultural and Biological Engineering
332 B Agricultural Eng. Sciences Bldg., MC-644
(217) 333-2693
yzhang1@illinois.edu
Colleges: ACES and Engineering
Department: Agricultural and Biological Engineering
Web (biography): <http://age-web.age.uiuc.edu/faculty/yhz/yhz.asp>
Areas of interest: Hydrothermal processing of biomass to crude oil.

Huimin Zhao

Professor, Centennial Chair
215 Roger Adams Laboratory, Box C-3, MC-712
(217) 333-2631
zhao5@illinois.edu
Colleges: LAS and Engineering
Departments: Chemical and Biomolecular Engineering, Chemistry, Biochemistry, and Bioengineering, Institute for Genomic Biology, Center for Biophysics and Computational Biology
Web (biography): <http://www.chemeng.uiuc.edu/Faculty/zhao.php>
Web (Depart.\Research): <http://www.chemeng.uiuc.edu/~zhaogrp/>
Areas of interest: Industrial biotechnology; bioenergy; metabolic engineering; developing new technologies to convert cellulose to biofuels; developing new technologies for butanol production; developing yeast strains that can efficiently utilize pentoses.

Xinguang Zhu

Research Scientist, Center Affiliate for NSCA
379 Edward R. Madigan Laboratory (ERML), MC-051
(217) 244-6317
zhu3@illinois.edu
College: LAS
Department: Plant Biology
Web (biography): <http://www.life.uiuc.edu/long/XinguangZhu.html>

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College of Agricultural, Consumer and Environmental Sciences

Center for Advanced BioEnergy Research

34 Animal Sciences Laboratory
1207 W. Gregory Drive, MC-630
Urbana, IL 61801
217/244-9270
<http://bioenergy.uiuc.edu>

Revised Fall 2008