Greetings from Iowa State University's Department of Agricultural and Biosystems Engineering (ISU ABE). Our department wants to highlight this past year’s milestones. We have faculty success, cutting-edge research, student achievements and more to share with you.

For the second year in a row, our undergraduate program earned a No.1 ranking in the nation by U.S. News and World Report (2017). Our graduate program ranked No. 2 in the nation after being ranked No.1 last year. While we have many factors to take credit for this success, I want to draw special attention to our teaching faculty and our welcoming environment. These elements, coupled with our well-balanced research funding portfolio, educational, research, extension and outreach, continues to serve us well in the national rankings.

I would be remiss if I didn’t draw attention to our cutting-edge facilities. Our department houses such innovative facilities as the ISU Biorenewables Research Laboratory and Sukup Hall, home to many teaching and research laboratories. Our research footprint extends beyond ISU’s campus. Currently, ISU ABE researchers conduct over 90 research facilities or equipment updates will help our students and researchers stay at the forefront in the uses of modern engineering systems that help address the important issues that our constituents are facing today.

Over the past five years, our undergraduate numbers have increased by nearly 2 percent and female enrollment has increased by 5 percent. The fall of 2017 hit an all-time high with 821 undergraduate students and 95 graduate students.

As ever, we have a well-balanced research funding portfolio. Between 2017 and 2018, we had more than $12 million in research expenditures. Both within the state of Iowa and beyond in the global community, our Department’s extension faculty bring educational and training opportunities to the public. For the 2017-2018 calendar year, our extension faculty organized 154 separate events serving nearly 13,000 people. Of these events, 113 were extension talks. They also developed 40 fact sheets, had more than 13,000 fact sheets downloaded and had more than 22,000 views of ISU ABE websites, podcasts and Twitter postings.

Constant improvement would not be possible without the help of our ISU ABE External Advisory Council (EAC). This council meets twice a year with our faculty, staff and students to provide meaningful feedback to our department. You can see the EAC members and the organizations they represent on page 29.

The 2017-2018 ISU ABE Annual Report is provided by the Iowa State University Department of Agricultural and Biosystems Engineering. The department accepts story ideas, photos, alumni news, comments and inquiries. Email abe@iastate.edu.

For the latest ISU ABE news, visit our website at www.abe.iastate.edu.

www.facebook.com/ISUABE www.ISU_ABE

www.youtube.com/user/ISUABE/ www.flickr.com/photos/abeiastate/ www.linkedin.com/groups/4002318/

LETTER FROM THE CHAIR

Steve Mickelson

Department Chair

Steve Mickelson

Associate Chair for Undergraduate Affairs

Amy Kalita

Associate Chair for Extension/Research

Matthew Helmers

Communications Specialist

Kathy Walker

Graph Design

Kathy Walker

The 2017-2018 ISU ABE Annual Report is available on the Iowa State University Department of Agricultural and Biosystems Engineering website

ON THE COVER: Professor Mark Der (right) and Ryan Bergman, a program coordinator in agricultural and biosystems engineering, are researching the use of unmanned aerial vehicles at Iowa State's BioCentury Research Farm. Photo by Christopher Gannon | College of Agriculture and Life Sciences.

ISU ABE Annual Report July 1, 2017–June 30, 2018

Focus Areas

Advanced Machinery Engineering and Manufacturing Systems, 7

Animal Production Systems Engineering, 8

Biological and Process Engineering and Technology, 9

Land and Water Resources Engineering, 10

Occupational Safety Engineering, 11

Personnel Lists, 12-13

Senior Capstone Projects, 14-17

2017 Publications, 19-22

Graduate Theses and Dissertations, 18

Graduate Theses and Dissertations, 18

Focus Areas

Advanced Machinery Engineering and Manufacturing Systems, 7

Animal Production Systems Engineering, 8

Biological and Process Engineering and Technology, 9

Land and Water Resources Engineering, 10

Occupational Safety Engineering, 11

Personnel Lists, 12-13

Senior Capstone Projects, 14-17

2017 Publications, 19-22

Graduate Theses and Dissertations, 18

Graduate Theses and Dissertations, 18

Focus Areas

Advanced Machinery Engineering and Manufacturing Systems, 7

Animal Production Systems Engineering, 8

Biological and Process Engineering and Technology, 9

Land and Water Resources Engineering, 10

Occupational Safety Engineering, 11

Personnel Lists, 12-13

Senior Capstone Projects, 14-17

2017 Publications, 19-22

Graduate Theses and Dissertations, 18

Graduate Theses and Dissertations, 18
The ISU ABE Department maintained its No. 1 ranking in U.S. News and World Report's national undergraduate school rankings, released in September 2017. This marks the second year in a row that ISU ABE has earned this honor.

In March 2018, the department earned a No. 2 ranking in U.S. News and World Report's national graduate school rankings.

The maintenance of the highest educational and research standards is a testament to the department's mission and vision. ISU ABE’s faculty, staff, graduate and undergraduate students and scholars are all engaged in and committed to teaching, research, extension and outreach. The following information contributes to our top-ranking program.

IN THE LAST FIVE YEARS

![Bar chart showing Departmental Budget from FY14 to FY18 for University and Cooperative Extension, Agriculture Experiment Station, College of Engineering, and College of Agriculture and Life Sciences.](image)

IN THE LAST FIVE YEARS

![Bar chart showing Undergraduate Enrollment from FY14 to FY18.](image)

IN THE LAST FIVE YEARS

![Bar chart showing Total TT and Term Faculty from FY14 to FY18.](image)

IN THE LAST FIVE YEARS

![Bar chart showing Graduate Enrollment from FY14 to FY18.](image)

IN THE LAST FIVE YEARS

![Bar chart showing Research and Department Staff from FY14 to FY18.](image)
WRITING
81 Peer reviewed journal papers appearing in print this calendar year
16 Peer reviewed journal papers accepted and to be published in next calendar year
42 Journal papers in review
47 Conference papers appearing in print
3 Book chapters appearing in print
2 Books appearing in print
2 Licensed Technology Transfer Agreements
1 Patents issued
56 Annual research reports completed and submitted
71 Plenary, invited or keynote lectures given
7 Professional society Fellows
14 Conference leadership roles

STUDENTS
22 Postdoctoral researchers supervised
64 Ph.D. students supervised as a major professor
114 Ph.D. students supervised as committee member
12 Ph.D. students graduated
58 M.S. students supervised as a major professor
63 M.S. students supervised as committee member
19 M.S. students graduated
133 Undergraduate students supervised

EVENTS ATTENDEES
41 7,884 Educational workshops/programs organized
113 5,930 Extension talks delivered
12,244 10A Fact sheets downloaded

PERSONNEL
47 Total FTE of P&S and merit staff supervised
45 Significant cross-department or interdisciplinary cooperation programming efforts

PROJECT PROPOSALS
163 Submitted proposals
109 Awarded proposals
960,000 Total funds on submitted proposals
$14,900,000 Total awarded amount

EXTENSION IMPACTS
48 Fact sheets developed
12 Extension programs tied to research grants
105 Popular press instances (e.g., radio interviews, appearing in or writing magazine articles)
64 Distinct stakeholder groups served
7 Distinct programs led
22,672 Views on websites, podcasts, etc.
18 Programs documenting changes in client behavior based on program education

EVENTS ATTENDEES
41 7,884 Educational workshops/programs organized
113 5,930 Extension talks delivered
12,244 10A Fact sheets downloaded

PERSONNEL
47 Total FTE of P&S and merit staff supervised
45 Significant cross-department or interdisciplinary cooperative programming efforts

PROJECT PROPOSALS
163 Submitted proposals
109 Awarded proposals
960,000 Total funds on submitted proposals
$14,900,000 Total awarded amount

2017 QUANTITATIVE SUMMARY

In early February 2018, a large medallion was installed in the Sukup Atrium. This engraved glass medallion recognizes the gold certification in the Leadership in Energy and Environmental Design (LEED) program of the U.S. Green Building Council for the construction of Sukup and Elings Halls. These buildings are located on the west end of Iowa State campus.

ANNUAL REPORT | 2017-2018 | PAGE 4

2018 QUANTITATIVE SUMMARY

ANNUAL REPORT | 2017-2018 | PAGE 5
RESEARCH OVERVIEW

Our research teams conduct many projects that deliver life-sustaining and industry-changing impact to citizens throughout the state, the Midwest, the nation and the world. Our department ranks top in research and development spending among the nation’s agricultural and biosystems engineering departments at public universities. These investments totaled over $12 million in FY17.

While maintaining our traditional connection to agriculture, our faculty researchers are also developing alternative production systems, leading innovative research for renewable energy sources, developing value-added products and processes, and implementing new methods to improve air and water quality. ISU ABE’s research platform is organized into five focus areas.

FOCUS AREA
ADVANCED MACHINERY ENGINEERING AND MANUFACTURING SYSTEMS

The agricultural and bioproduction industry is dependent on advanced machinery systems to produce bioenergy, food, feed and fiber for Iowa, the U.S. and the world. Through our research program, we discover new knowledge and advanced technologies and systems needed to enhance the performance of agricultural and off-highway machinery systems and associated manufacturing systems.
FOCUS AREA
ANIMAL PRODUCTION SYSTEMS ENGINEERING

We strive to develop efficient, innovative animal housing and manure management systems to ensure environmentally sustainable production systems. Our faculty expertise is in ventilation design, wood structure design, sensor controls for animal well-being, sustainable nutrient management systems and optimization of heat-stress mitigation strategies. Through our research, we discover new knowledge and technologies to ensure sustainable development of livestock and poultry industries to promote economic prosperity at state, national and global levels.

Jay Harmon, PE
Professor; Interim Associate Dean for Extension and Outreach; Interim Director for Agriculture and Natural Resource Extension and Outreach

FOCUS AREA
BIOLOGICAL AND PROCESS ENGINEERING AND TECHNOLOGY

We are dedicated to engineering new technologies and systems that enhance the wide array of biological systems and processing technologies. Our strengths cover biomass pretreatment to sensor development, from life-cycle analysis to novel processing techniques, food safety to fermentation modeling, grain properties to bionanotechnology, and from seed science to feed technology. In addition, much of our current work addresses critical needs within the developing bioeconomy and the challenge of global food security.

Thomas Brumm
Associate Professor; Mary and Charles Sukup Global Professor in Food Security

Students get hands-on experience studying animal housing inside the ISU Dairy Barn milking facility. Photo by Christopher Gannon | College of Agriculture and Life Sciences.

Carl Bern, university professor at ISU-ABE, is studying disturbance in efforts to limit weevil damage to corn in storage. By shaking the container, the female weevil is dislodged as she chews a hole in a kernel to deposit an egg. Photo by Christopher Gannon | College of Agriculture and Life Sciences.

ANNUAL REPORT | 2017-2018 | PAGE 8
ANNUAL REPORT | 2017-2018 | PAGE 9
FOCUS AREA
LAND AND WATER RESOURCES ENGINEERING

We work to develop engineered solutions and best management practices that protect and conserve the soil and water resources of Iowa, our nation and the world. Our highly productive faculty and staff serve many essential functions as teachers, researchers and extension experts on topics such as water quality and pollution control, hydrology and drainage, environmental quality, and remote sensing and modeling. Through our research program, we discover new knowledge and work to enhance the environmental performance of agricultural landscapes.

FOCUS AREA
OCCUPATIONAL SAFETY ENGINEERING

We are dedicated to the singular goal of zero injuries. Health and safety of populations are socially and economically important to industries in Iowa, the U.S. and the world. Our faculty’s diverse areas of interest strengthen our ability to develop and disseminate loss prevention measures and strategies to provide safer places to live and work. We strive to continually develop, evaluate and implement loss prevention measures and strategies for a safer future.

Sensors and satellites could be the future of tracking soil moisture. ISU ABE Professor Amy Kaleita (left) and ISU Agronomy Professor Brian Hornbuckle are leading the way with technology to help farmers make decisions in their fields. Photo by Christopher Gannon | College of Agriculture and Life Sciences.

This illustration shows ISU and Iowa Department of Transportation personnel “standing” on the completed I-74 Mississippi River Bridge as it’s depicted in the ISU-designed virtual reality simulation. Image courtesy of Nir Keren.
PERSONNEL LISTS

BUSINESS OFFICE

Sylvia Anderson
Program Assistant

Kristine Bell
Graduate Secretary

Barbara Brown
Fiscal Officer

Suzanne Buckle
Administrative Specialist

Asha Kasthela
Systems Support Specialist

Wendi Su
Grant Coordinator

Katie Tindall
Communications Specialist

RESEARCH AND EXTENSION

Lori Abadost
Program Manager

Jeffrey Ackroyd
Engineer

Chandi Banik
Postdoctoral Research Associate

Yin Ban
Postdoctoral Research Associate

Emily Beeman
Program Coordinator

Jako Behrens
Teaching Lab Coordinator

Daniel Bengtson
Engineer Designer

Ryan Bergman
Program Coordinator

Kristine Bond
Engineer

Erin Bowers
Associate Scientist

Jeremy Briae
Assistant Scientist

Giorgi Chighladze
Systems Analyst

Jialiang Chou
Postdoctoral Research Associate

Jacqueline Comito
Program Director

Ben Coniglio
Engineer Designer

Breton Calp
Research Associate

Yijian Ding
Program Coordinator

Kevin Ehrecke
Program Manager

Brian Gehler
Administrative Specialist

RESEARCH AND EXTENSION (CONTINUED)

Sierra Hagedon
Engineer Designer

Rob Mathenew
Teaching Lab Coordinator

Elizabeth Jarchens
Extension Program Specialist

John Just
Associate Scientist

Ji-Yeon Law
Engineer Designer

Junjie Liu
Postdoctoral Research Associate

Leigh Ann Long
Research Associate

Laying Ma
Research Associate

Melissa McConny
Extension Program Specialist

Robert McNaul
Program Coordinator

Michel Michel
Research Associate

Christopher Murphy
Program Coordinator

Patrick Murphy
Postdoctoral Research Associate

John Odenweller
Program Coordinator

Carl Pederson
Agriculture Specialist

Kevin Peyton
Engineer

Lori Powell
Program Coordinator

Elizabeth Ricke
Postdoctoral Research Associate

Glen Rippke
Agriculture Specialist

Claudette Somerwill-Green
Assistant Scientist

Ann Suess
Program Coordinator

Tedd Shewers
Music and Outreach Specialist

Nathan Stewartson
Extension Program Specialist

Katherine Taylor
Program Coordinator

Kathy Walker
Graphic Designer

David Webler
Associate Scientist

Keith Webster
Program Coordinator

Chris Witte
Assistant Scientist

PERSONNEL LISTS (CONTINUED)

STUDENT SERVICES

Ashtyn Beek
Academic Adviser, Agricultural Systems Technology

Lindsay Frenche
Academic Adviser, Engineering

Tamarra Keesa
Academic Adviser, Industrial Technology

Braun McCarty
Academic Adviser, Engineering

Caine Phaneuf
Student Services Specialist

ADJUNCT, AFFILIATE AND COURTESY FACULTY

Hee Kwon Ahn
Chungnam National University

Mohamed Banaoob
Makarere University

Robert Brown
Department of Mechanical Engineering and Bioeconomy Institute*

Tanu Brown-Brubard
USDA

David Eisenmann
Center for Nondestructive Evaluations*

Lali Gogeliani
Georgian Technical University

Cameron Gomes
Department of Mechanical Engineering*

David Hoyng
Environmental Health and Safety*

Darrin Jacek
University of Maryland

Kevin Keener
Department of Food Science and Human Nutrition*

John Laffor
Buffalo State-CACC*

Buddhi Lamsal
Department of Food Science and Human Nutrition*

Zhiyou Wen
Department of Food Science and Human Nutrition*

James Withers
Danfoss Power Solutions

ISU ABE Adviser Tama Kama (left) is one of four departmental advisers. Photo by Christopher Gannon.
**SERNI CAPSTONE PROJECTS FALL 2017**

**AGRICULTURAL AND BIOMASS ENGINEERING PROJECTS**

**PROJECT TITLE** | **TEAM MEMBERS**
--- | ---
**AGM CDM** | Alex Boonman, Dan Elstein, Kevin Daisher
**AGM Rotary Fiber Drum** | Randy Sugan, Shawn Grogan, Andrew Smith
**Barita Bulk Tote Efficiency and Ergonomics** | Diya Nithi, Aaron Carter, Craig Frappier, David Gardner, Sean Paul Mitchell
**CNC Router** | Alex Young, Julia Au, Wong Lee, William Constable, Andrew Mieder, Brooke Shaffer
**Drone Camera Bracket** | Philip Implement, Brian Hadson, Cameron Dayt, Sport Gabe
**DuPont Drones** | Dustin Purnell, Cady Hall, Scott Edison, Jack Lauter, Blake Allender
**DuPont Emotion Seats** | Dustin Purnell, Thresa Burgett, Ryan Ritchie, Andrew Zarr, Amanda Morin
**Pella Powder Coat** | Jason Vander Werff, Matt Miller, Jaya Fylik, Alex DeGrazia, Brian Allender
**Pella Palomax** | Jason Vander Werff, Ryan Maclean, Spencer Schwartz, Joe Winter
**Pella Duracast Welding** | Jason Vander Werff, Cooper Jansen, Andrew Bishop, Jim McLean, Hyunsoo Hyunju
**Spray Table Test Stand** | Dr. Stuart Birrell, TJ Sterk, Koy Vander Leest, Ryan MacLean, Spencer Schwartz
**Variable Speed PTO Shaft** | John Deere, Tyler Babich, Brian Kestler, John Reinhart, Alex Ikies

**Agricultural Systems Technology and Industrial Technology Projects**

**PROJECT TITLE** | **TEAM MEMBERS**
--- | ---
**Rosenzymes: Evaluation of Rosenbrewing** | Dr. Kurt Rosentrater, Ben Goedken, Carly Polson
**Lab Scale Pellet Mill Automation** | Dr. Kirk Rosenwasser, Matthew Evan, Alex Innes, Grant Hoppes, Jesse Buck

**SENIOR CAPSTONE PROJECTS SPRING 2018**

**Agricultural and Biomass Engineering Projects**

**PROJECT TITLE** | **TEAM MEMBERS**
--- | ---
**Ammonia Diagostor** | Ben Hilton, Billy Maddox, Alex DeGaetano, Matt Dent, Tori Oehlendorf
**ASAFO Fountain Wars** | Dr. Michelle Sugan, Jennifer Whittaker, Jennifer Hill, Maricela Cortes
**Barilla Improved Efficiency** | Michaela Blasingame, Brad Cho
**CNC Machine Efficiency Through Triage** | Ivan Prailov
**Design Lab Equipment for Third World Countries** | Dr. Chris Cassady, Jeremy Tjardes
**Hydraulic Pliers** | Dr. Kirk Rosenwasser, Matt Hanson, Brandon Bookman
**Hydrostatic Pliers** | Bob Dahl, Jolin Loo, Jacob Bobo, Tony Handlos

“My favorite part of the capstone class is the opportunity to work with leading companies on real problems and projects. I enjoy getting to work alongside my peers to push ourselves to new limits and reach out to a variety of resources, both at the university and industry levels.” — Brian Davis, senior in agricultural systems technology
**Agricultural Systems Technology and Industrial Technology Projects**

- **Project Title:** Facility Layout and Flow Improvement
  - **Client:** Central Iowa Fireworx
  - **Team Members:** Danyt Blalock, Colton Cortez, Parker Sucker, Chandler Verhelst

- **Project Title:** Facility Layout and Flow Improvement
  - **Client:** P&K Iowa
  - **Team Members:**Bias Grovsway, Joseph Howel, Mark Alvis, Adrian Wathen

- **Project Title:** Grain Cart Conception Analysis
  - **Client:** John Deere ISU - Justin Upmeyer
  - **Team Members:** Kyle Kenut, Jake Steinborn, Gage Rummage

- **Project Title:** Hands-on Training Stations
  - **Client:** USDA Feed & B&G Complex
  - **Team Members:** Kaye Bailey, Alton Forry, Mike Moody, Taylor Semin

- **Project Title:** Head Pathway Management
  - **Client:** Cedar Valley Innovation
  - **Team Members:** Austin Ackerchief, Nick Spratt, Colton Ryan, Jon Sherk

- **Project Title:** Homestead Golf Court Clubhouse Design
  - **Client:** City of Ames
  - **Team Members:** John Jacobus, Justin Melicher, Mitch Rorshock, Chris Wilkens

- **Project Title:** ISU Transportation: Traffic Flow and Space Utilization
  - **Client:** ISU Transportation Services
  - **Team Members:** Mike Rylit, Adam Brandt, Austin Miranda

- **Project Title:** Oil Filter Test Stand
  - **Client:** Kayle Steine & Heather Grosher
  - **Team Members:** Calvin Joy, Janise Moore, Dylan Prispolita

- **Project Title:** ORBIS Granulator Sound Abatement
  - **Client:** ORBIS Corporation
  - **Team Members:** Matthew Blair, Adam Joerger, Michael Johnson, Micah Palmer, Michael Johnson, Dylan Lunde, Adam Tatum

- **Project Title:** Oil Filter Test Stand
  - **Client:** Reckless and Reise Company
  - **Team Members:** Ericp, Inc.; Jonathan Naug, Nick Kisch, Patrick Oberg, Jeff Rutherford

- **Project Title:** Scale up and Manufacturability Analysis of Domestic Dehydrator
  - **Client:** Kinzel SBC
  - **Team Members:** Jared Kuzma, Nathaniel Gowan, Dan Meiners, Grant Osborn, Matthew Robakina

- **Project Title:** Silicone Applicator Tip Cleaning
  - **Client:** Cedar Valley Innovation
  - **Team Members:** Tyler Hamman, Ben Karcher, Troy Walker

- **Project Title:** Process of Making Taps Handling
  - **Client:** Cardinal Glass
  - **Team Members:** David Rodriguez, Nate Myers, Kyle Blais

- **Project Title:** BMC Fixure Re-Design
  - **Client:** Quality Manufacturing Solutions
  - **Team Members:** Patrick Hight, Josh Schwaab, Tyler Smith, Ryan Werner

- **Project Title:** Reuse of Facility Water Supply
  - **Client:** Burks
  - **Team Members:** Neal Peklacek, Matthew Bratby, Christian Peterson

- **Project Title:** RV Office Work Station Modules
  - **Client:** Winnegagen
  - **Team Members:** Alex Anderson, Aaron Freeman, Brian Kooi, Liz Mulliner

- **Project Title:** Scale up and Manufacturability Analysis of Domestic Dehydrator
  - **Client:** Kinzel SBC
  - **Team Members:** Jared Kuzma, Nathaniel Gowan, Dan Meiners, Grant Osborn, Matthew Robakina

- **Project Title:** Silicone Applicator Tip Cleaning
  - **Client:** Cedar Valley Innovation
  - **Team Members:** Tyler Hamman, Ben Karcher, Troy Walker

**Commentary**

"I like having the freedom to use our own opinions, to put forth our ideas and see them come to life. It’s great working as a team … meeting each week to come up with the best solutions for our project.”

—Kyle Henik, senior in industrial technology

"Capstone day is always a major win. It’s a day when there is a sense of relief, and the industry clients are happy and excited," says Joe Vanstrom, lecturer in advanced machinery engineering.”

—Kyle Henik, senior in industrial technology
2017 PUBLICATIONS (CONTINUED)


2017 PUBLICATIONS (CONTINUED)


ANNUAL REPORT | 2017-2018 | PAGE 20

ANNUAL REPORT | 2017-2018 | PAGE 21
Dear friends: when you give to ISU ABE, you …

• Support students through scholarships and graduate fellowships
• Support faculty through endowed chairs and professorships
• Support research/education through laboratory and classroom improvements

Please use this form to contribute or contact Will Johnson, tel. (515) 294-6393, email wtjohnso@iastate.edu, or Ray Klein, tel. (515) 294-3303, email rklein@iastate.edu, for more information. Thank you for your continued support!

DONOR INFORMATION
First name
Last name
Primary email
Address 1
Address 2
City
State Zip
Country
My spouse/partner should also receive credit for this gift
Name
PAYMENT INFORMATION
• Check enclosed (payable to the ISU Foundation)
• Credit card (select type below)
Credit card number: Exp:
Name on card:
Signature:
• Visa
• MasterCard
• Discover
• American Express

GIFT DESIGNATION
Choose the area of ISU ABE that you’d like to support

<table>
<thead>
<tr>
<th>Name</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABE Excellence Fund (0213522)</td>
<td>$</td>
</tr>
<tr>
<td>ABE Scholarship Fund (0500080)</td>
<td>$</td>
</tr>
<tr>
<td>Undergraduate Student Fund (02703349)</td>
<td>$</td>
</tr>
</tbody>
</table>

Please contact me:
• I have included ISU ABE in my estate plan
• I am interested in establishing a scholarship, naming a laboratory or creating a named faculty position
• I would like information on planned giving

Want to complete this giving form on-line or set up a recurring gift? Visit www.foundation.iastate.edu/abe

Please return form and payment to: ISU Foundation
2505 University Blvd
Ames, Iowa 50010-7164

DONORS

Gary & James Weede
Donald & Nancy Werbach
Scott Wilcox
Dana Wilson
Leon Wirt
DeWitt Witte
Gerald & Linda Wolf
Victor & Jane Zitte

Agronomy

Individuals
Michael & Stephanie Ackerman
Jeffrey Askey
Marvin Bigbee
David & Marcia Boeding
James & Margaret Bosserd
Douglas Bosworth
Charles Brandt
Ronald Brass
Francis & Margaret Brinkmeyer
Martin Broadrick
Tom & Heather Brumm
Lon Burleson
Robert Casterton
Candace Charity
Martin Cleveland
Eric Drabkin
Donnal & Sharon Erbach
Christopher & Marguerite Events
Brian Fischer
Sarah Fischer
Scott & Holly Feyn
James & Patricia Fonken
Lawrence & Margie Gay
Anthony Germann
Robert & Trevia Giddings
Dennis Gunderson
Scott Halteman
Howard Hall
John & Beverly Hall
Richard Hanson
Thomas & Marilyn Hanson
Audrey Havendik
Steve & Beth Hoff
Gerald & Marlene Hollander
Thomas & Jane Hollander
Joseph Houck
Raymond Hufnake
Brian & Diane Hunter
Richard Hubert
Mary & Ann Jensen
Alvin & Ruth Klouda
David & Lisa Koester
Atiba & Amy Konkoly
James Konslund
Glen & Kelsey Krasner
Otto & Alice Kunze
Mark & Kimberly Laingen
Ronald & Liz Leonard
Roy Linn
Roy & Teresa Maeder
Diane & Lanny Mangold
Stephen & Audrey Marley
Allan & Wilma Matthie
Michael McCain
Vince & Paula McAdams
Dan & Michelle McFarland
Stewart & Carol Meier
Steve & Colette Mickelson
Richard Midland
Amy Millman Schmit
Lerry Mills
Matthew Monthe
Ards Moore
Daniel & Valorie Money
David Munson
Paul Nelson
Stuart Nelson
Tony O’Connell
Gluegeon & Victoria Odoena
Frankie & James Olson
Marie & Orazio Dison
Martin & Ann Osterhus
Joshua Peppers
Russell & Kelly Persyn
Don & Kay Persson
Roger Peterson
Howard & Ray Steffy
Rig & Mary Raman
Richard Rall
Leland Reick
William Ritter
Dean & Rainawhede
Tymor Romoser
Michael & Christy Ryan
Robert Schauer
Dale & Alice Schumacher
Leon Schumacher
Matt Scott
Stephen & Rose Seaver
Bruce & Virginia Seurad
Carol & Sandy Seurad
Charles Six
Steven Sookup
E. Paul Taiganides
Corporations / Organizations
AGCO
Ag Leader
Archer Daniels Midland
Beehinf Co.
Caterpillar Foundation
Catholic Charities
Christian Foundation
Ciba-Geigy Corporation
Citicorp Foundation
Computer Norway
Danfoss Foundation
Danfoss Power Solutions
Davidson Foundation
Eaton Foundation
Eli Lilly & Co.
Elm Lilly & Company Foundation
Eli & Edythe Broad Foundation
Eaton Corporation
Engelhard Foundation
Equitable Life Foundation
Evangelical Lutheran Church in America
Evanston Community Foundation
Fairchild
Fairchild Foundation
FMC Foundation
FMC Corporation
Ford Foundation
Foundation for Management Education
Fountains (London)
Fund for Food and Agricultural Research
Goulds
General Mills
General Mills Foundation
General Mills Foundation
General Mills Foundation
Gibson Foundation
Girvin Foundation
Glenmore Foundation
Glenmore Foundation
Glenn & Kelley Kranzler
Godwin Foundation
Goodwill Industries
Grand Traverse Area
E. Richard & May McFarland Foundation
Grand Traverse Bay Area
Grace Foundation
Grandview Foundation
Grant & Susan Ford Foundation
Greater Twin Cities United Way
Great Lakes Foundation
Green & Main Foundation
Greenbrier Foundation
Gum Foundation
Guinness Foundation
Haggar Foundation
Harbor Area Community
Harley Foundation
Harry S. Drickmiller Foundation
Health Foundation
Hewlett Packard Foundation
Hewlett Packard
Hoosier Foundation
Humphrey Foundation
Husker Alumni Association
Huskers Foundation
Ike Foundation
Illinois Farm Bureau
Illinois Foundation
Illinois State Fair Foundation
Illinois State University Foundation
Illinois Mutual Foundation
Indiana Farm Bureau
Indiana University Foundation
Indiana University
Iowa Farm Bureau
Iowa Foundation Foundation
Iowa State University Foundation
Iowa State University
Iowa State University Foundation
Iowa State University
Iowa State University
Iowa St 如果您有任何问题或需要进一步的帮助，请随时联系我。