Imagine Solutions.
Imagine ACES.

Dean Robert J. Hauser
College of Agricultural, Consumer and Environmental Sciences
Imagine Your Future...
ACES@Illinois
Imagine…
Abundant food and energy.
A society driven by innovation.
A planet without waste.
A financially secure economy.
A healthy environment.
Successful families and communities.
Imagine…

a world with abundant food and energy, a healthy environment, and successful families and communities. The College of ACES – finding solutions to the world’s most critical challenges.
ACES – Who we are

• ACES Academic Programs
• Illinois Agricultural Experiment Station
• University of Illinois Extension
ACES – In the right position

• “Land-grant universities, through their experiment stations and extension services, are on the frontline of sustaining and securing America’s leadership and competitiveness in what is and will be the key macroeconomic sector of our time.”

ACES – In the right position

- “There is no other arena of economic activity, or field of science and innovation, that so directly addresses human survival and quality of life, global economic development, and prospects for an environmentally sustainable future as agriculture and agbioscience.”

-Battelle Memorial Institute:
“Power & Promise: Agbioscience in the North Central United States, 2011”
**ACES is recognized globally**

Illinois – among the elite institutions noted for the impact of research in food and agricultural sciences.

- The University of Illinois ranked
  - 2nd in animal sciences
  - 4th in food sciences
  - 5th in agronomy and crop sciences
  - 8th in agricultural economics

  *(Chronicle of Higher Education “Top Research Universities in the 2007 Faculty Scholarly Productivity Index”)*

- Agricultural and Biological Engineering ranked 1st in graduate and 2nd in undergraduate programs

  *(U.S. News and World Report, 2012)*

- Reported ranking ranges for particular ACES departments, e.g. Animal Sciences, were among the top programs in the nation

  *(2010 NRC)*

- Illinois ranks among the **top 20 research institutions worldwide** – government and university – in its impact on agricultural sciences

  *(Thomson Reuter’s Essential Science Indicators database, January 1, 1998 through August 31, 2008)*
Preparing leaders

- **ACES Academics**
  - 2,500 undergraduates
  - 600+ graduate students

- **High quality students**
  - 26.7 ACT; 86 HSPR
  - 93% freshman retention
  - 84% 6-year graduation

- **High demand graduates**
  - 79% placement*
  - $41K starting salaries

- **Diverse Curricula**
  - 11 majors, 13 minors
  - 38 concentrations

*2011 Placement: 49% employed, 30% graduate or professional education
Preparing leaders

Teaching more, with fewer faculty

<table>
<thead>
<tr>
<th></th>
<th>2010-2011</th>
<th>5-year increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACES IUs</td>
<td>80,291</td>
<td>+18%</td>
</tr>
<tr>
<td>Urbana IUs</td>
<td>1,332,711</td>
<td>+5%</td>
</tr>
<tr>
<td>ACES Online IUs</td>
<td>7,877</td>
<td>+1,406%</td>
</tr>
<tr>
<td>Urbana Online IUs</td>
<td>58,738</td>
<td>+240%</td>
</tr>
</tbody>
</table>

- ACES teaches 6% of the Urbana instructional units
- ACES teaches 14% of the online Urbana instructional units
- ACES teaches 31% of its IUs to non-ACES students
Preparing leaders

• Transfer students
  • 12 community college transfer agreements - more to come
  • 168 new transfers this year

• Professional education
  • Growing off-campus masters programs (blended and online models)
    • Crop Sciences, FSHN, NRES
  • Professional Science Masters
    • Agricultural Production
    • Bioenergy
    • Food Science & Human Nutrition
    • Technical Systems Management
Preparing leaders

- **Recruiting diversity**
  - Research Apprentice Program (RAP I, II, & weekend)
  - Young Scholars Program
  - Undergraduate research opportunities
  - Chicago High School for Agricultural Sciences (CHSAS)
  - I-ALAS

% Under-Represented Undergraduates

ACES
Preparing leaders

• Attracting the best
  • Nearly $2 million in scholarships granted annually
    • ACES Aspire Awards
    • Jonathan Baldwin Turner (JBT) Scholarships
    • Departmental Awards

“Plain and simple – this award helped me afford …the U of I…I knew ACES would allow me to combine my interests in the technology systems management program.”

– Jared Eaton, ‘11 ACES Aspire Award
Advancing science & scholarship

- 195 tenure-track faculty

- Seven academic departments
  (Consolidated in 1995)
  - Agricultural & Biological Engineering
  - Agricultural & Consumer Economics
  - Animal Sciences
  - Crop Sciences
  - Food Science & Human Nutrition
  - Human & Community Development
  - Natural Resources & Environmental Sciences

Other Units
- Division of Nutritional Sciences
- Centers and Laboratories
Advancing science & scholarship

Faculty

Faculty - % Women & Under-Represented

AP - % Women & Under-Represented

ACES (% Women)

Urbana (% Women)

ACES (% Undrrp)

Urbana (% Undrrp)

%
Advancing science & scholarship

- Dr. William Helferich
  - Director, NIH Botanical Research Center

- Dr. Scott Irwin
  - Laurence J. Norton Chair in Agricultural Marketing
  - Team Leader, The Farmdoc Project

I-TOPP Team
- Dr. Barbara Fiese
  Director, Family Resiliency Center
- Dr. Rod Johnson
  Director, Division of Nutritional Sciences
- Dr. Sharon Donovan
  Noel Professor in Nutrition and Health
- Dr. David Buchner
  Kinesiology
Advancing science & scholarship

Gift & Grant Research Expenditures

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$0</td>
<td>$10,000,000</td>
<td>$20,000,000</td>
<td>$30,000,000</td>
<td>$40,000,000</td>
<td>$50,000,000</td>
</tr>
</tbody>
</table>

Gift & Grants Per Faculty FTE

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>$0</td>
<td>$100,000.00</td>
<td>$200,000.00</td>
<td>$300,000.00</td>
<td>$400,000.00</td>
<td>$500,000.00</td>
</tr>
</tbody>
</table>
"At University of Illinois Extension, we’ve spent the last two years preparing for growth -- transforming our organization and creating the foundation that is needed to enable us to thrive and grow in the coming years.”

We are working on a new paradigm for U of I Extension.
Extending knowledge
Extending our reach
At the speed of business
Daily refreshing knowledge and information
With 24/7 access

“I always enjoy your newsletter and like to compare with our situation.” Simon Ward, UK, February 27, 2012
Extending knowledge

Globally
Developing strategic partnerships and projects
Sending more than 1/3 of ACES students to study abroad

Studying abroad, e.g. South Africa
Establishing university collaborations, e.g. Brazil
Finding solutions

ACES priorities map to campus priorities:
FOOD
ENERGY
HEALTH
ENVIRONMENT

Organizational Strategy – What is ACES doing?

• **2010**: ROI Analysis for state and tuition dollars
• **2011**: Identified priorities at College and department levels
• **2012**: Defining distinctive areas for investment at department levels
Our Newest Faculty

- **Micronutrient nutrition and delivery systems** - J. Andrade
- **Bioenergy crop genetics** – P. Brown
- **Human-environment interactions** – B. Cutts
- **Muscle biology** – A. Dilger
- **Immuno-physiology and nutrition** – R. Dilger
- **Environmental, renewable energy law** - J. Endres
- **Nutrition of cattle** – T. Felix
- **Food and agricultural policy, trade, and development** – B. Kirwan
- **Food process engineering** – Y. Lee
- **Family relationships** – B. Ogolsky
- **Leadership education** – D. Rosch
- **Genetics and breeding of biomass (perennial grasses)** – E. Sacks
- **Beef production and environment management** – D. Shike
- **Ecology and behavior of birds** – M. Ward

Finding solutions
Investing around societal outcomes:
- FOOD
- ENERGY
- HEALTH
- ENVIRONMENT
Finding solutions

Global population will reach 9 billion by 2050, adding cities the size of Champaign-Urbana every day for the next 39 years.

-Paul Schickler
President Pioneer Hi-Bred, A DuPont Business

Innovation requires holistic solutions across value chains
Imagine solutions. Imagine ACES.

- Serving our societal needs now, leading to better outcomes in the future
  - FOOD
  - ENERGY
  - HEALTH
  - ENVIRONMENT
Imagine Your Future...
ACES@Illinois