INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES

All Hands
Mike Boehm
January 18, 2017
OVERVIEW

- Possibilities
- University Strategic Planning
- Unit Updates
- Partnerships
- People
- Places
A BIT ABOUT ME
OH THE PLACES WE’VE BEEN...
IANR ON THE ROAD
Momentum
Innovation
UNIVERSITY STRATEGIC PLAN

2017 will be the ‘Year of the Strategic Plan’

- Four Tasks Forces formed
  - Achieving Distinction
  - Budget Model
  - Smart Enrollment Growth
  - Student Matriculation Success

- Enhancing Diversity and Inclusion
LEGISLATIVE UPDATE

Lots of New People:
- 25 of 49 seats were up for election
- 17 new senators were elected
- (34.7% turnover)

Budget Setting Session
NU BUDGET

We’ve Always Been a Good Investment

- $3.9 billion annual economic engine for Nebraska.
- 6-to-1 return on their investment.
- 1 of every 36 jobs in Nebraska is attributable to the university.
- Produce 10,000 graduates each year
- Source of expertise for solutions to the most pressing challenges.
- Partner to serve all Nebraskans, presence in all 93 counties
NU BUDGET

Open Forum, Nebraska Union Auditorium

Tuesday, January 31
8 a.m. (staff)
9:15 a.m. (faculty)

**Streaming details TBA**
UNIT UPDATES

ARD
DEAN AGRICULTURAL RESEARCH DIVISION
Archie Clutter

CASNR
DEAN COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES
Steve Waller

EXTENSION
DEAN EXTENSION
Chuck Hibberd

CEHS
DEAN COLLEGE OF EDUCATION AND HUMAN SCIENCES
Marjorie Kostelnik

NCTA
DEAN NEBRASKA COLLEGE OF TECHNICAL AGRICULTURE
Ron Rosati
Nebraska College of Technical Agriculture

<table>
<thead>
<tr>
<th>Fall semester</th>
<th>FTE – full-time, on-campus</th>
<th>Percent increase</th>
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<tr>
<td>2016</td>
<td>245</td>
<td>2.5</td>
</tr>
<tr>
<td>2015</td>
<td>239</td>
<td>4.8</td>
</tr>
<tr>
<td>2014</td>
<td>228</td>
<td>6.5</td>
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<tr>
<td>2013</td>
<td>214</td>
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Nebraska College of Technical Agriculture

2016-2017 NCTA Ranch Horse Team
CASNR ENROLLMENT UPDATE

Enrollment: 12 years of growth
Undergraduate: 2,340
Graduate: 692
Professional Students: 57

Retention Rate (10 year average):
85% CASNR, 72% national average

Graduation Rate (10 year average):
76%; celebrated our 23,560th graduate in December 2016

Placement rate: Highest entry placement rate
CASNR GLOBAL ENGAGEMENT

CASNR Undergraduate Scholarship Program (CUSP) for Rwanda

"I believe that when I leave UNL, I will have learned new techniques, how to choose the best fertilizers, how to prevent soil erosion, and how to ensure food security without harming the environment. My peers and I will have the mindset to think about the future and how each one of us can positively impact the lives of all Rwandese."

-CUSP Cohort 2 Scholar
CASNR GLOBAL ENGAGEMENT

3+1 Dual Degree Program in Food Science and Technology (UNL and Northwest Agriculture and Forestry University – NWAFU, Xianyang, China)

- Years 1 and 2: Courses taught by NWAFU faculty; curriculum mirrors UNL Food Science and Technology degree program
- Year 3: UNL faculty teach third year of degree program in Xianyang
- Year 4: 3+1 students complete fourth year of degree in Lincoln
- 3+1 students earn degrees from both institutions
From Foundational to Translational

**PhD in Complex Biosystems:** The PhD Program in Complex Biosystems is designed to prepare students for both academic and industrial careers. It is directed toward students interested in applying quantitative statistical and computational approaches to data acquisition and analysis in multiple life sciences fields including human health and medical biochemistry, plant phenomics, and host-microbial metagenomics.

**New Opportunities:**
- Nebraska Food for Health Center (agriculture and medicine)
- Nebraska One Health (integration of human, animal, plant, and ecosystem health)
- Consortium for Integrated Translational Biology (CITB) (addressing the genotype to phenotype gap in plant science)
GRADUATE EDUCATION

Recognizing the Diversity of Possible Career Paths:
• Academia - Research, Extension, Teaching
• Industry
• NGO’s
• Foundations
• Government (local, state, federal)

Creating Unique Opportunities with Private-Sector Partners
• Offer component of program as visiting collaborator (intern) to partner companies
• Leverage Nebraska Innovation Campus for Innovative Experiential Learning
  • Provide participation in collaborative projects with companies
  • Provide opportunities for professional development training
Both the University of Nebraska Medical Center and the University of Nebraska-Lincoln reported record hauls in sponsored research funding last year.

UNMC's all-time high of $115.1 million eclipses its previous record of $115 million set in 2009-10, which was bolstered by American Recovery and Reinvestment Act dollars.

"We're pretty excited about reaching this milestone," said Jennifer Larsen, UNMC's vice chancellor for research.
## RESEARCH - IANR

<table>
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<tr>
<th>Fiscal Year</th>
<th>Research Expenditures</th>
<th>Sponsored Research Expenditures</th>
<th>Tenured &amp; Tenure Track FTE</th>
<th>Research Expenditures per FTE</th>
<th>Sponsored Research Expenditures per FTE</th>
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<tbody>
<tr>
<td>2015</td>
<td>$132,239,461</td>
<td>$52,746,006</td>
<td>290</td>
<td>$456,628</td>
<td>$182,134</td>
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<td>2014</td>
<td>$123,279,217</td>
<td>$46,358,960</td>
<td>279</td>
<td>$441,544</td>
<td>$166,042</td>
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<tr>
<td>2013</td>
<td>$116,788,119</td>
<td>$40,741,153</td>
<td>275</td>
<td>$424,669</td>
<td>$148,144</td>
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<td>2012</td>
<td>$107,844,403</td>
<td>$39,364,810</td>
<td>266</td>
<td>$405,873</td>
<td>$148,150</td>
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**RESEARCH**

**Phenomics** – the science of measuring a set of observable characteristics of an organism or crop as influenced by their environment over time.

Beadle, 2014

Greenhouse Innovation Center, NIC, 2016

ARDC, 2017
PARTNERSHIPS

Nebraska Food for Health Center
PARTNERSHIPS

Beef Systems Research Initiative

Multi-disciplinary faculty team charged with completing a research plan by April that strategically integrates IANR state-wide facilities, partnerships with USMARC, and leverages for additional external funds.

Integrated Beef Systems Faculty Committee

Mary Drewnoski  Richard Randle  Galen Erickson  Daren Redfearn
Rick Funston   Walt Schacht   Jim McDonald  Matt Spangler
Jay Parsons    Rob Mitchell – ARS  Harvey Freetly – ARS

$1.5M Funding Opportunity – Next 5 years
PARTNERSHIPS

First Conference
Nebraska Brewers & Growers Conference
PARTNERSHIPS

Nebraska (Yangling) Agricultural Sci-tech Park

- Demonstration farm using American farming technology
- Partners: NE Dept. of Economic Development, Nebraska Extension & Yangling Agriculture Hi-tech Demonstration Zone.
- Lindsay, Valley, and Reinke are providing center pivots.
- Behlen will install grain bins and a drying system.
- Preferred Popcorn will provide popcorn seed.
- Primary crops will be field corn, popcorn, wheat and soybeans.
- Extension will provide a management plan and weekly crop management updates as well as on-the-ground support at the farm.
- Josh Davis, Jon Kerrigan and Chuck Hibberd are project leads.
“The next science standards specifically focus on engineering, but engineering traditionally is not taught in schools, especially at these grades. We saw an opportunity to fill that gap with this new curriculum.”

- Brad Barker
Celebration of Youth XXIII: A Harvest of Creatives

- Sponsored by the Department of Textiles, Merchandising & Fashion Design (TMFD)
- Hosted at the Robert Hillestad Textiles Gallery in September/October.
- Displayed the work of 4-H youth from across Nebraska that were winners in the areas of clothing, home environment and Quilt Quest from the Nebraska State Fair.
ENGAGING YOUTH

Mark Poeschl
CEO, National FFA

Engler Agribusiness
Entrepreneurship Program

Rural Futures
Internship Program
NEW PEOPLE

Faculty Members: 30
Post-Docs: 6
Staff: 23
NEW TENURE-LINE FACULTY

Michael Adamowicz
Ajai Ammachathram
Troy Anderson
John Benson
Andrea Bianchini-Huebner
Jeong Hoon Choi
John Gamon
Holly Hatton-Bowers
Reka Howard
Jennifer Johnson-Jorgensen

Forrest Kievit
Surin Kim
Bijesh Maharjan
Kaustav Majumder
Tiffany Messer
Claire Nicholas
Toshihiro Obata
Jamlynn Poletto
Jeffrey Stokes
Xinghui Sun

Cole Thompson
Judith Turk
Brian Vander Ley
Ana Maria Velez Arango
Rebecca Wachs
Mark Wilkins
Yuhang Xu
Jinliang Yang
Yeyin Shi
Jiujiu Yu
LEADERSHIP CHANGES

Clinton Krehbiel  
Department Head, Animal Science

Steve Waller  
Dean, College of Agricultural Sciences and Natural Resources

Roch Gaussoin  
Department Head, Agronomy & Horticulture

Dave Varner  
Associate Dean, Nebraska Extension
EASTERN NEBRASKA RESEARCH AND EXTENSION CENTER

• Headquarters at the ARDC near Ithaca
• Transition led by Don Adams
• Recently hired three associate directors
  • Bill Kranz, Northeast Associate Research and Extension Director
  • Dave Ulferts, Metro Associate Research and Extension Director
  • John Westra, Southeast Associate Research and Extension Director
PLACES

Veterinary Diagnostic Center

Opening Summer 2017
PLACES

East Campus Residence Hall

Opening
Fall 2017
PLACES

East Campus Union
PLACES

East Campus Academic Commons
C.Y. Thompson Library

Fundraising Currently Underway
EVENTS

Water for Food Conference

Water for Food Security: From Local Lessons to Global Impacts

APRIL 10-12, 2017
Nebraska Innovation Campus
Lincoln, Nebraska, USA
EVENTS

Burr/Fedde and Friends Reunion 2017

Tickets are $100 and include:
  8 a.m. Breakfast
  9 a.m. East Campus Tours
  12 p.m. Lunch featuring Val’s
  2 p.m. UNL City Campus Experience
  6 p.m. Kickin’ Back 50s Style Dinner and Celebration at the Cornhusker

Saturday, June 10, 2017
Going Forward

If we focus on the success of our people, by being accessible, equitable, diverse & inclusive, by being an engaged university, through authentic partnerships, we will make a difference in the world.
Time to Hear from You!