



GROWING A HEALTHY FUTURE

FOOD • FUEL • WATER • LANDSCAPES • PEOPLE

UNIVERSITY OF NEBRASKA-LINCOLN





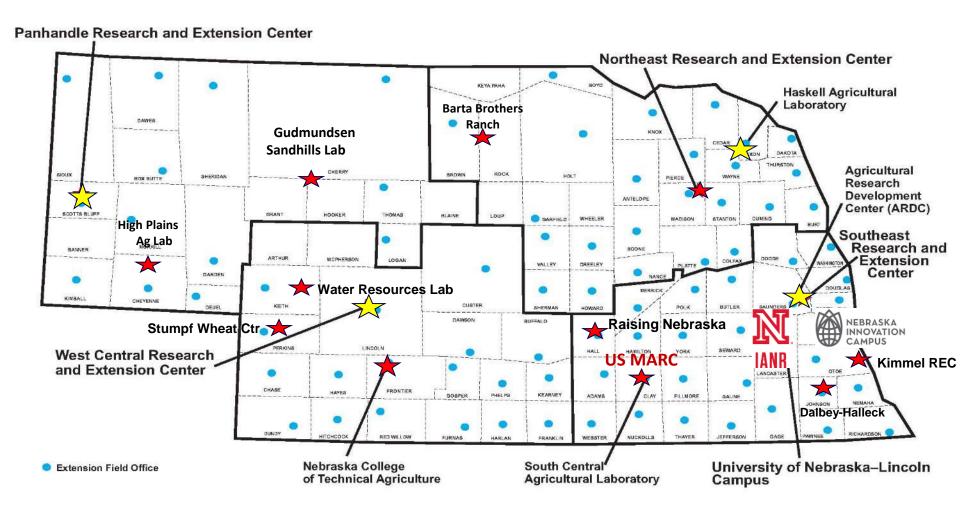
Overview of Today's Conversation

- Leading UNL's Growth Goals
- IANR 2025 Foci
- Physical Campus Growth
- Leadership Transitions
- 2015 Omtvedt Innovation Awards
- Upcoming Events





To be the leading public university in the world in *sustainably* "feeding the future" . . . through advancing food, energy, natural resources and rural landscape security.



Integrated Teaching, Research and Extension IANR = 38,950 acres





1,962 People Passionate about Making a Difference

- 1,224 IANR employees work on campus
- 738 IANR employees are located in Nebraska communities statewide
- 741 total faculty (40 TTF in recruitment)

Goals

- Increase enrollment to 30,000
- Increase faculty by ~170
- Increase 6-year graduation rate to 70%
- Increase research expenditures to \$300 M
- Increase national/international recognition of faculty
- Successfully launch Phase I of Nebraska Innovation Campus



Leading UNL's Goals

Fall 2015 Enrollment

CASNR Enrollment for 2015 = 2267 (+0.6%)

Up from 2254 in 2014

11th Year of Increase

Total Number of Undergraduates = 2,761 (-0.6%)

*Includes Biochemistry (182) +9%

and Biological Systems Engineering (312) -12%

Professional Students = 60 Graduate Students = 661

TOTAL = 3,482 (+14% since FY12)



Leading UNL's Goals

2015 Enrollment Growth

Non-Resident Total = 728 (24.5%)

International = 310 (10.6%)

Total UNL + NCTA = 3,994



UNL Total Enrollment Fall Semester

IANR Total Enrollment Fall Semester

	Fall	UNL Total	Under- grad	Prof	Grad	Fall	CASNR Total	Under- grad	Prof	Grad
	2003	22559	17851	489	4219	2003	1910	1503	0	407
	2004	21792	17167	193	4162	2004	1880	1466	0	414
	2005	21675	17037	488	4150	2005	1990	1553	0	437
	2006	22106	17371	478	4257	2006	2061	1606	0	455
	2007	22973	18053	502	4418	2007	2331	1794	25	512
	2008	23573	18526	547	4500	2008	2569	2015	50	504
	2009	24100	18955	554	4591	2009	2775	2166	50	559
	2010	24610	19383	607	4620	2010	2990	2321	55	614
	2011	24593	19345	569	4679	2011	3056	2402	59	595
	2012	24207	19103	545	4559	2012	3142	2486	58	598
	2013	24445	19376	515	4554	2013	3316	2616	64	636
	2014	25006	19979	510	4517	2014	3482	2777	61	644
ĺ	2015	25260	20182	502	4576	2015	3482	2761	60	661

8.5%

13.8%

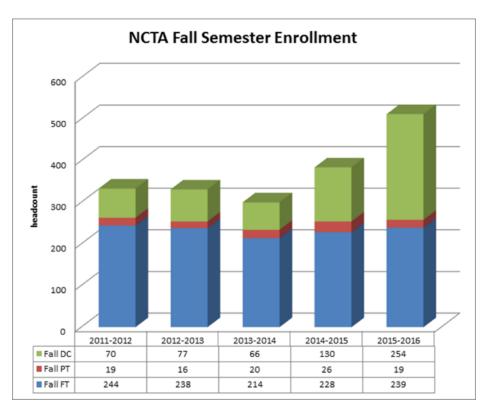


UNL Total Undergraduate Enrollment - Fall Semester 2015 (+1.0%)

		2020	% of
Degree Program	2015	Goal	Goal
Agribusiness	246	241	102
Agricultural Economics	123	115	107
Agricultural Education	93	87	107
Agric & Envir Sci Comm	28	30	93
Agronomy	212	183	116
Animal Science	351	450	78
Applied Science	69	65	106
Biochemistry	81	115	70
Environmental Restoration			
Science	18	13	139
Environmental Studies	59	99	60
Fisheries and Wildlife	170	265	64
Food Science and			
Technology	75	85	88
Food Technology for			
Companion Animals	6	10	60
Forensic Science	123	153	80
Grassland Ecology and			
Management	4	8	50
Grazing Livestock Systems	11	27	41

		2020	% of
Degree Program	2015	Goal	Goal
Horticulture	65	117	56
Hospitality, Restaurant &			
Tourism Mgmt.	38	115	33
Insect Science	19	23	83
Integrated Science	7	22	32
Mechanized Systems			
Management	100	91	110
Microbiology	26	50	52
Natural Resources &			
Environmental Econ.	17	18	94
Plant Biology	17	14	121
PGA Golf Management	101	200	51
Turfgrass & Landscape			
Management	34	62	55
Veterinary Science	56	87	64
Veterinary Technology	3	3	100
Water Science	16	12	133
Pre-forestry	0	2	0
Pre-Veterinary Medicine	86	65	132
Total	2267	2827	80

NCTA Enrollment



Record enrollment this fall with **512 students**, based on dual credit, part-time and full-time enrollees. The enrollment is a **4.8%** increase in on campus students from 2014, and **33% increase** overall.

Leading UNL's Goals

6-YEAR GRADUATION RATE 82%



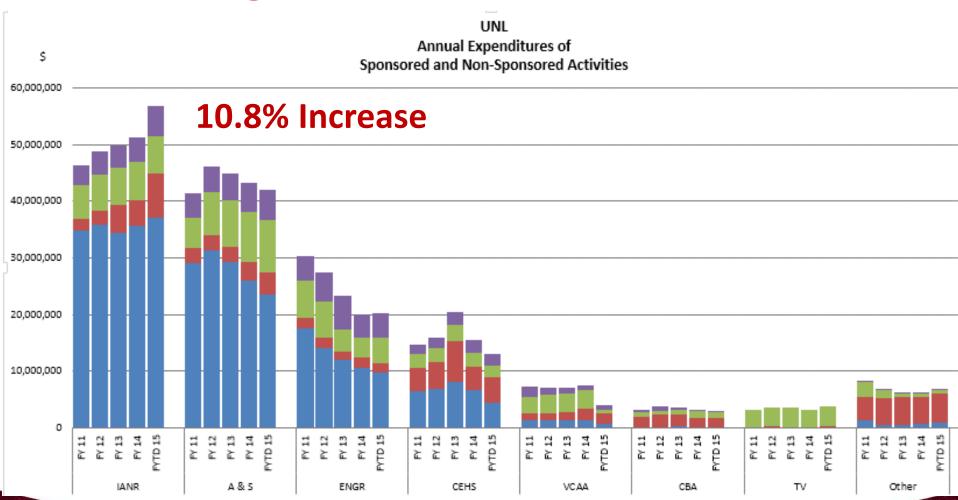
2008 CASNR Class - ~75% **2008 UNL Class – 67%**

Leading UNL's Goals

RESEARCH EXPENDITURES

Fiscal Year	Total IANR Research Expenditures	Total Sponsored IANR Research Expenditures	Tenured & Tenure Track FTE	Total IANR Research Expenditures per Headcount FTE	Sponsored Research Expenditures per FTE
2014	123,279,217	46,358,960	279.20	441,544	166,042
2013	116,788,119	40,741,153	275.01	424,669	148,144
2012	107,844,403	39,364,810	265.71	405,873	148,150

Leading UNL's Goals -- RESEARCH





Since January 1, 2012:

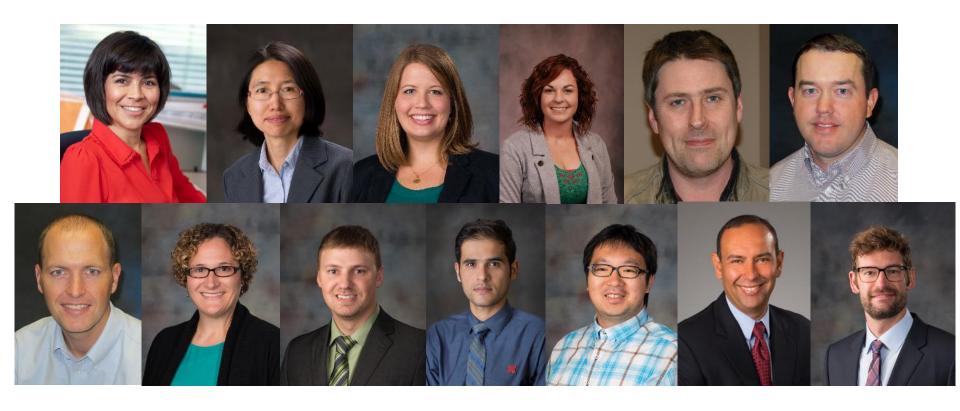
Total of 100 Tenure Track Faculty Hires Completed

GRAND TOTAL by 2016 = 140 positions (of which 72 are newly created positions)

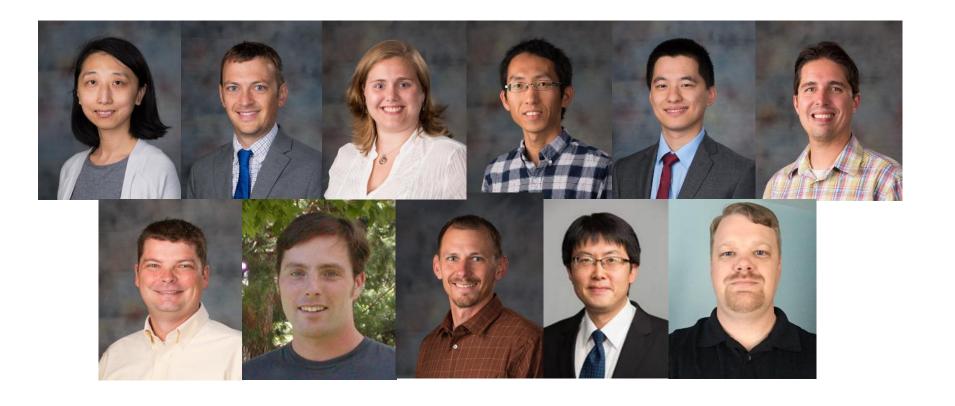
Total number of IANR faculty (335) will have increased by 27% when hiring is complete in 2016 (42% in 4 years)



New Faces – Hired Since January 1



New Faces – Hired Since January 1



Leading UNL's Goals





380,000 sq. feet

+80K sq. feet



Innovation Campus

Phase 1 Building – 380,000 sq. feet



\$176M



Nebraska State Fair



Record Attendance!

2015 brought in 352,176 guests (up 11% from 2014)

The new record is nearly 20,000 more than the previous attendance record, which was in 2012.



Innovation Campus

Phase 1 Building - 380,000 sq. feet



UNIVERSITY OF NEBRASKA-LINCOLN









ConAgra Foods







NEBRASKA ALLIANCE FOR ADVANCED FOOD SANITATION 1







MORE EFFECTIVE AND EFFICIENT

SANITATION APPROACHES

COOPERATIVE TECHNOLOGY

CONSULTING

INNOVATION AND ADVANCEMENT IN PRODUCTION SANITATION

A unique opportunity exists for the creation of the Nebraska Alliance for Advanced Food Sanitation. The University of Nebraska-Lincoln and industry partners in the alliance will conceptualize, create, and disseminate improved sanitation approaches and practices. More efficient and effective sanitation will result in a reduction in the quantities of chemicals used in sanitation, savings in time and operational costs resulting in more affordable foods at the consumer level, and consistently safer food products.

The timing for this initiative is opportune to support the mandates for validated preventive controls for food safety hazards that will be promulgated by the U.S. Food and Drug Administration's Food Safety Modernization Act (2011). Alliance activities are envisioned to focus on all manner of food safety concerns including microbial pathogens, allergens, and taxic chemicals; food quality and shelf life; cost and risk benefit assessments; water conservation and reusability; and genetically engineered foods.









Ann Willet Pharm D., MBA, Director of Strategic Alliances 402 472 5535 awillet2@unl.edu

Nebraska Department of Food Science and Technology:

Steve Taylor Ph.D. University of Nebraska-Lincoln 402 472 2833 staylor2@unl.edu Joe Baumert Ph.D. University of Nebraska-Lincoln 402 472 3070 jbaumert2@unl.edu

The University of Nebruska-Lincoln is an equal opportunity educator and employer



NIC Partners































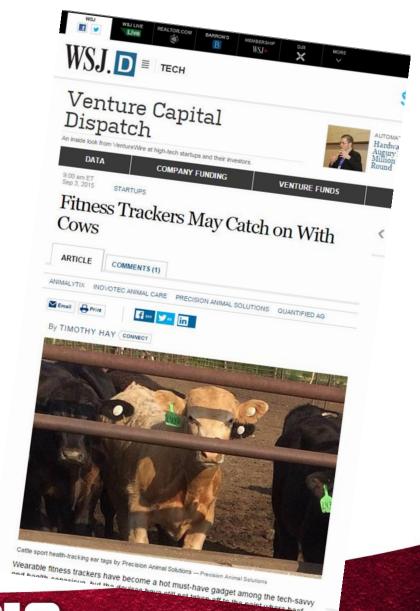






QUANTIFIEDAG

- Specializes in improving animal health, focusing on radio frequency ear tag technology and data collection platforms for the BEEF and PORK industries.
- 2014 graduate of the NMotion Accelerator, a 13week, mentor-driven startup accelerator.



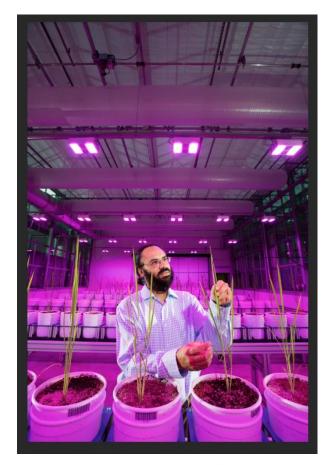


- A start-up bioinformatics company led by Andy Benson, W.W. Marshall Distinguished Professor
- MGA partners:
 - Khalid Sayood, professor of electrical and computer engineering
 - Rohita Sinha, postdoctoral researcher
 - Ufuk Nalbantoglu, Erciyes Univ in Turkey
 - UNL graduate The "Ty" Nguyen of Professional Computer Solutions

UNIVERSITY OF NEBRASKA-LINCOLN





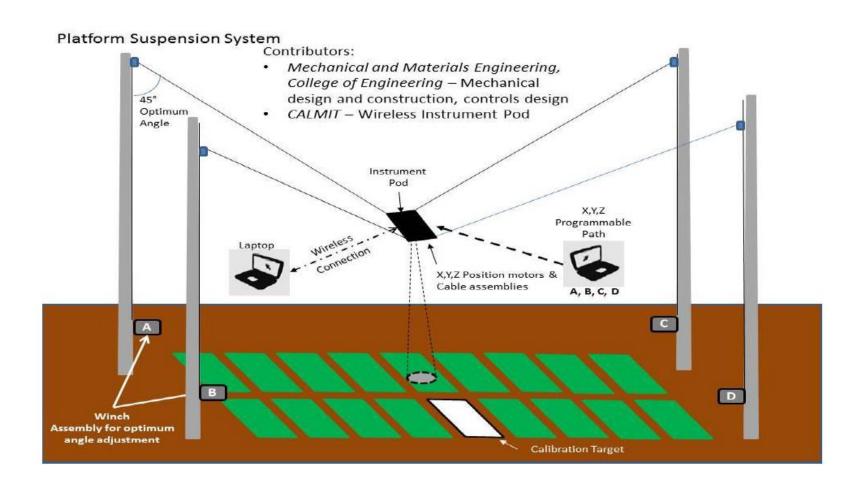


PHENO-Summit
October 2015



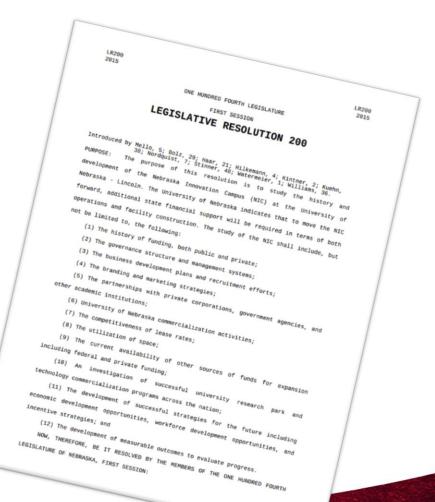


UNIVERSITY OF NEBRASKA-LINCOLN



NIC Interim Study

- LR200 Interim study to examine the history and development of the Nebraska Innovation Campus at the University of Nebraska-Lincoln
- Public Hearing: November 4th



NIC Interim Study -- Funding

University	44.1M
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State 37.7M

Private Sector 94.1M

Philanthropy 10.1M

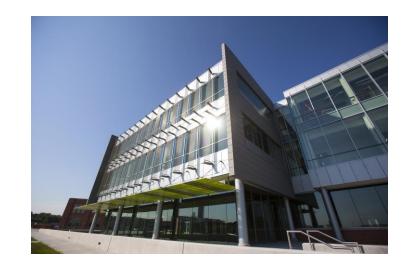
GRAND TOTAL \$176M

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LR200
2015
                                                ONE HUNDRED FOURTH LEGISLATURE
                                      LEGISLATIVE RESOLUTION 200
                  Introduced by Mello, 5; Bolz, 29; Haar 21; Hilkomann, 4; Kintner, 2; Kuehn, 45; Watermeier, 1; Williams, 36,
                            38; Nordquist, 7; Stinner, 48; Watermeier, 1; Williams, 38.

The purpose of this resolution is to study the history and
                 development of the Nebraska Innovation Campus (NIC) at the University of
                 Nebraska - Lincoln. The University of Nebraska indicates that to move the NIC
                forward, additional state financial support will be required in terms of both
               operations and facility construction. The study of the NIC shall include, but
               not be limited to, the following:
                  (1) The history of funding, both public and private;
                  (2) The governance structure and management systems;
                 (3) The business development plans and recruitment efforts;
                (4) The branding and marketing strategies;
               (5) The partnerships with private corporations, government agencies, and
          other academic institutions;
             (6) University of Nebraska commercialization activities;
             (7) The competitiveness of lease rates;
            (8) The utilization of space;
           (9) The current availability of other sources of funds for expansion
      including federal and private funding;
          (10) An investigation of successful university research park and
    technology commercialization programs across the nation;
        (11) The development of successful strategies for the future including
  economic development opportunities, workforce development opportunities, and
  incentive strategies; and
      (12) The development of measurable outcomes to evaluate progress.
     NOW, THEREFORE, BE IT RESOLVED BY THE MEMBERS OF THE ONE HUNDRED FOURTH
LEGISLATURE OF NEBRASKA, FIRST SESSION:
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Innovation Campus

October 9, 2015
NIC Grand Opening



4-5:30 p.m. Tours of NIC

(open to the public)

5-7 p.m. Football Friday events

Hosted by UNL Alumni Association





\$140M!!!



>\$50M by 2020







"25 by 2025" Endowed Chair Campaign

Nebraska Wheat Growers Presidential Chair (2011)

Nebraska Soybean Board Presidential Chair (2013)

Nebraska Corn Board Presidential Chair (2014)

Allen Food for Health Presidential Chair (2014)

Engler Agribusiness Entrepreneurship Chair (2011)

Robert B. Daugherty Water for Food Chair (2012)

Ron Hanson Nebraska Ag Bankers Chair (2014)

Heuermann Agronomy Chair (2011)

Ralph and Alice Raikes Chair (1999)

William F. Allington Distinguished Plant Pathology Chair (1995)

George Dempster Smith Chair (2009)

William F. Splinter Chair*

Yeutter International Trade & Finance Presidential Chair (2015)

43 Endowed Professorships Holders

Gift will establish global trade institute at UNL



March 16, 2015 7:00 pm - By CHRIS DUNKER | LINCOLN JOURNAL STAR

IANR to 2025 Planks

Continued attention to our people

- Providing regular opportunities for informal faculty interactions
- Comprehensive program for recognizing faculty and staff accomplishments
- Making annual supervisor-employee performance reviews more productive

Continued attention to our policies and business practices

- Simplifying and assisting with contract development
- Automating time entry
- Ongoing review and revision of IANR policies

IANR to 2025 Planks Graduate Student Enrollment

Program	Grad	Prof	Cert
Agricultural and Biological Systems Engineering	26		
Agricultural Economics	26		
Agricultural Education/Leadership	8		
Agronomy (MS)	70		
Agronomy and Horticulture (PhD)	70		
Animal Science	69		
Applied Science	47		
Biochemistry	29		
Biological Engineering	10		
Entomology	80		
Food Safety and Defense			5

Program	Grad	Prof	Cert
Food Science and Technology	69		
Grassland Management			4
Horticulture (MS)	4		
Integrative Biomedical Science	15		
Mechanized Systems Management	3		
Natural Resource Sciences	81		
Statistics	43		
Veterinary Science	2		
Doctor of Plant Health		8	
Professional Program in Veterinary		52	
Medicine			
TOTAL	652	60	9

661 **⇒** *865*



Graduate Student Enrollment

Greatest Opportunities for Recruitment and Growth

Continue to recruit to unique programmatic strengths

- Established
- Emerging
 - Translational Plant Sciences/Phenomics
 - Food for Health
 - Sustainable Agricultural, Natural and Community Systems

Graduate Student Enrollment

Greatest Opportunities for Recruitment and Growth

Create Unique Opportunities with Private-Sector Partners

- Offer component of program as visiting collaborator
- Leverage Partnerships at Nebraska Innovation Campus
 - Provide participation in collaborative projects with companies
 - Provide opportunities for professional development training
 - Research Leaders
 - High Performance Teams
- Project Management
- Research Entrepreneurship



Graduate Student Enrollment

Greatest Opportunities for Recruitment and Growth

Develop and Capture International Opportunities

- Established and Emerging
 - Brazil

- India
- Turkey

China

- Africa
- Indonesia

Embrace and Leverage New Graduate Training Models

Life Sciences – Complex Biosystems

IANR to 2025 Planks Global Engagement

- Our faculty and staff must be supported and empowered to engage with counterparts around the world to address the great challenges of the 21st Century.
- Our students must be prepared to live, work, and serve in our interconnected world.
- **Nebraskans** must be provided the opportunity to connect to the global experience that we can help them access.



Where We Have Been

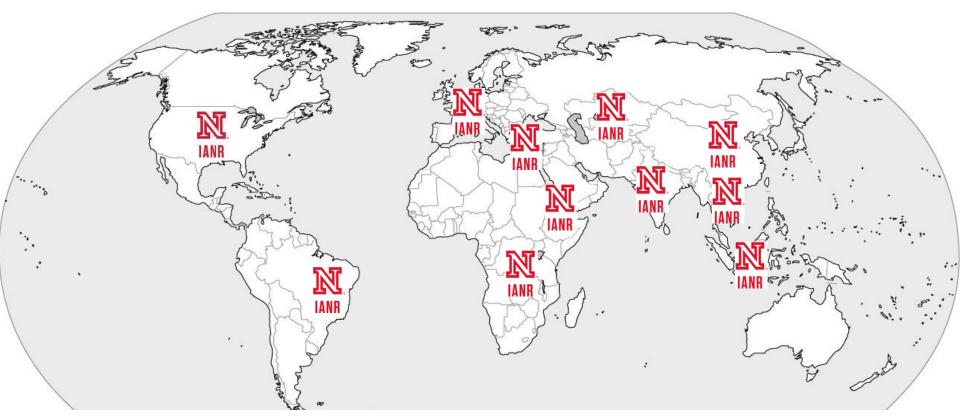
A History of Being Globally Engaged

- <u>1950-60's:</u> Ataturk University in Erzurum, Turkey
- <u>1960's:</u> Colombian Agricultural Institute in Bogota, Colombia



Chancellor Hardin at Ataturk University, 1950.

Where We Are



CHINA (Northwest A&F, China Ag, IWHR), BRAZIL (ESALQ, CAPES, BSMP, UFRGS), INDIA (IARI, MSSRF, JAIN, NIFTEM), TURKEY (Ataturk University), NETHERLANDS (UNESCO-IHE), ETHIOPIA, MIDDLE EAST (USAID/MENA, NASA Drought), TANZANIA (CIRCLES), VIETNAM (LMPPI-Harvard Kennedy School). INDONESIA (Bogor, USBI),

Where We Are Going

Externally

- New 3+1 Program in Food Science with Northwest Ag & Forestry University, China
- Expanding Existing Partnerships, including Brazil

Internally

- A culture of Comprehensive Internationalization
- Global Engagement Advisory Council
- Regional Interest Groups
- Expanded Global Engagement Seed Funding
- Larger Global Engagement Staff
- Internationalizing Extension





Exciting Opportunities



IANR Global Engagement Staff



Josh Davis
ASSISTANT VICE CHANCELLOR



Liana Calegare



Miranda Ducey
Administrative associate

http://ianr.unl.edu/global-engagement



Science Literacy

- Engagement with unit administrators and faculty
- Unit-level Science Literacy plans
- Accountability and reporting through Activity Insight (available 2016)



DISTANCE EDUCATION

"True Distance"

"Enhancing Graduation in 4"





Eastern Nebraska REC

Recommendations from the

2014 IANR Resource Optimization Task Force

- Focus on unique landscape and issues of eastern Nebraska
- Consider a new model for ARDC that most effectively integrates Research, Extension and Teaching towards the IANR mission
 - Bring NEREC, SEREC and SCAL into this model

Eastern Nebraska REC

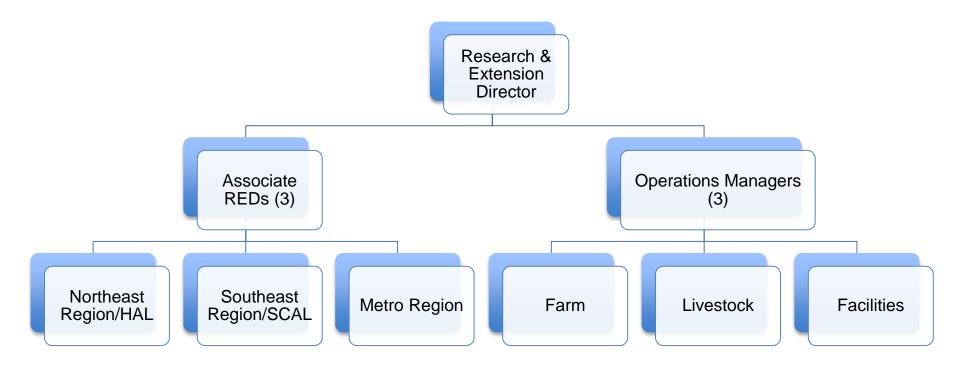
Leverage strengths in existing programs. . .

- Accelerate the creation and delivery of scientific knowledge of agriculture and natural resource systems in eastern Nebraska
- Apply a full range of research, teaching and extension activities to address critical and emerging issues for Nebraska
- Address multidisciplinary, integrated projects to scale
- Achieve broader faculty engagement, within and beyond IANR
- Realize marketing opportunities for operations and accomplishments
- Build on our strong history of research (and extension) accomplishment

Strategic Issues (possible)

- Integrated crop and livestock production systems focused on productivity, profitability, diversification and sustainability
- Mitigating uncontrolled exogenous events (weather, markets, disasters, environmental challenges)
- Themes important to people/communities
- Sustainable crop and livestock systems (training, education and applications)

Organizational Chart



Transitional Leadership

Don Adams will serve as transitional Research & Extension Director (Nov 15-Jun 17)

First Steps -

- Finalize Administrative and Management Roles and Search Plans
- Draw on Internal and External Stakeholder input in developing full working model and transition plan





Search for new WCREC RED to begin immediately Kelly Bruns, Interim RED

Nebraska Extension - Issues

- Nebraskans care about issues
 - They want us to be relevant and proactive
 - They can help us identify important issues
- Encourages interdisciplinary work
- Diversifies membership
 - Scientists, external partners, etc.
- Strengthens engagement → synergy



Issue Teams

- Stakeholder Survey (1,987 responses)
- August Faculty Survey
- August 22 19 issues announced
- Issue Discovery Webinars
 - Describe the issue, outcomes, products
- Issue Teams launch March 2016







High Plains Ag Lab Charles R. Fenster Building





Henry J. Stumpf International Wheat Center





Veterinary Diagnostic Center



Opening in 2017



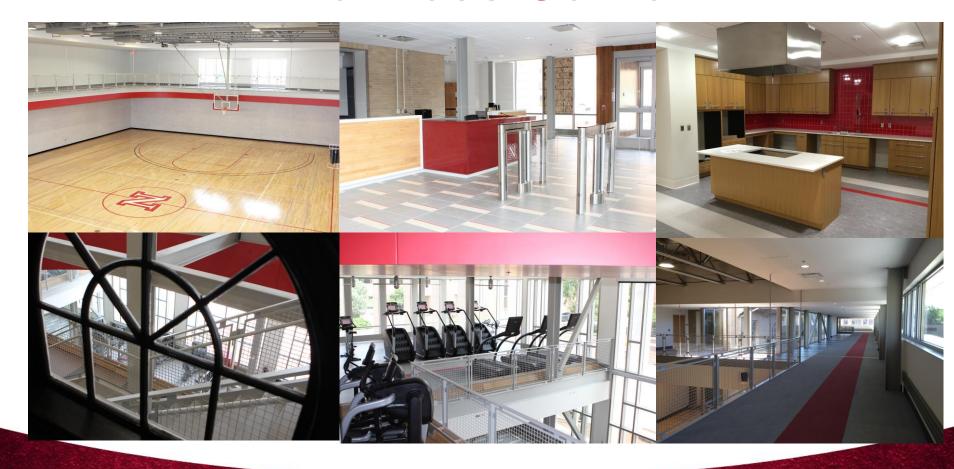


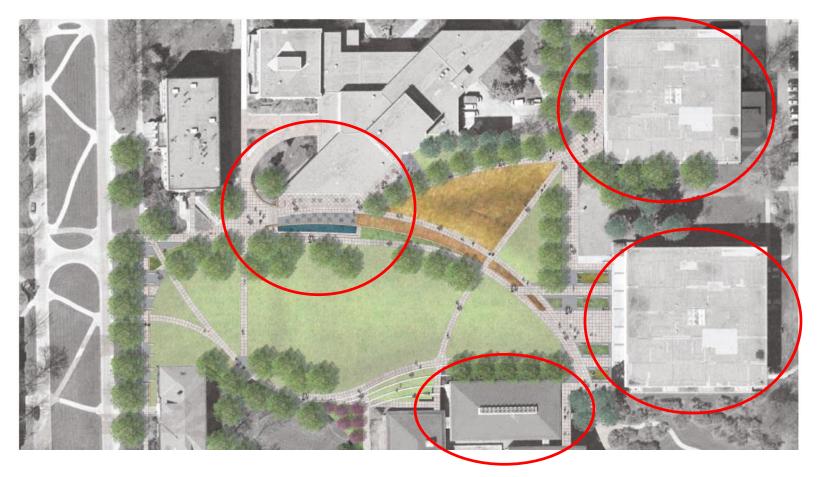


New East Campus Recreation and Wellness Center



East Campus Recreation and Wellness Center





Thinking Big: East Campus Learning Commons



New Residence Hall for East Campus!





Anchors the north side of East Campus Student Commons





CY Thompson Library

Est. 1966

Provides library collections and services for:

- Institute of Agriculture and Natural Resources
- College of Dentistry
- Department of Special Education & Communication Disorders













Student Learning Commons



Creating a Community Life Hub

The **East Campus Student Commons** will pull together many student resources into one central location.

- East Campus Visitors Center
- Engler Agribusiness Entrepreneurship Program
- NU Rural Futures Institute
- Career Services & Education Abroad
- Student Testing Center
- 60K Volume Power Library
- New Module to Library Repository on East Campus



Fixed Functions & Flexible Areas



Engler Agribusiness Entrepreneurship Program



NU RURAL FUTURES INSTITUTE





"The Hub" will be created by destination anchors attracting students through the co-location of services and amenities. A café, multipurpose rooms, seminar rooms, and technology support will create the draw and introduce the available learning resources.





Building Section





East Elevation





24 X 7 Activity





Dairy Store & Visitors Center

Classroom Nexus







Extending the Landscape

Legacy Plaza















Project	Completion Date	Cost	State Funding	Private Funding
Biofibers Research Lab	Fall 2013	\$376K	\$376K	
Havelock Farm Popcorn Building	Fall 2014	\$450K		\$450K
Entomology Bldg (WCREC)	Winter 2014	\$337K	\$337K	
Snyder Addition (WCREC)	March 2014	\$412K	\$412K	
Elliott Bldg Upgrade (PHREC)	Fall 2014	\$3.9M	\$3.9M	
Animal Handling Facility (PHREC)	Fall 2013	\$320K		\$320K
High Plains Ag Lab (Sidney)	June 2014	\$510K	\$10K	\$500K
Commodity Trading Room	Fall 2014	\$763K		\$763K
Stumpf International Wheat Center	December 2014	\$1.02M	\$20K	\$1M
East Campus Rec	Summer 2015	\$14.9M	\$14.9M	
Raising Nebraska – State Fair	Summer 2015	\$5M		\$5M
Quilt House Expansion	Summer 2015	\$7M		\$7M
Veterinary Diagnostic Center	Fall 2017	\$45M	\$41M	\$4.2M
Nebraska Innovation Campus	2015/Ongoing	\$176M	\$81	\$10
East Campus Residence Hall	Fall 2017	\$37.5M	\$37.5M	
East Campus Learning Commons	Spring 2018	\$43M	\$30M	\$13M
Nebraska East Union	Spring 2018	\$15M	\$15M	





5% Overhead Assessment

- \$1.27M in pool
- \$3.19M in requests
- Funding projects in 14 units
- Funding 36 projects ranging from \$800 to \$90K



Engagement, Empowerment and Innovation

- Focused effort is called INSPIRE
- Core Principles:
 - Align to our Mission
 - Foster a Spirit of Collaboration
 - Promote a Strengths-Based Environment



IANRHR@unl.edu



IANRHR.unl.edu

2015 Staff Survey Results

Top Areas for Improvement:

- Increased level of recognition
- Utilize & enhance skills and capabilities
- Talk about career goals and development
- Orientation to perform job
- Compensation and pathway for promotion



Performance Management

- Focus on frequent & meaningful conversations
- Currently piloting our new approach
- All IANR will use beginning 2016
- Includes technology solution to document discussions & development plans



Team Building & Manager Development

- Dedicated staff to help make your team more effective
- Team Building Workshops
- Manager Toolkit and Resources
- Customized to your needs
- Contact <u>iarnhr@unl.edu</u> to schedule



Servant Leaders

Leadership Transitions



Daugherty Water for Food, Founding Executive Director







Senior Vice Chancellor for Academic Affairs, University of Nebraska - Lincoln







Institute of Agriculture and Natural Resources

ASSOCIATE VICE CHANCELLOR

Ron Yoder

ASSISTANT VICE CHANCELLOR FOR BUSINESS AND FINANCE

Jeff Bassford

ASSISTANT VICE CHANCELLOR FOR **GLOBAL ENGAGEMENT**

Josh Davis

ASSISTANT TO THE VICE CHANCELLOR FOR EXTERNAL RELATIONS

Jill Brown











DEAN AGRICULTURAL RESEARCH DIVISION



Archie Clutter



DEAN COLLEGE OF AGRICULTURAL SCIENCES AND NATURAL RESOURCES



Steven Waller



DEAN **NEBRASKA EXTENSION**



Chuck Hibberd



DEAN COLLEGE OF **EDUCATION** AND HUMAN SCIENCES



Marjorie Kostelnik



DEAN NEBRASKA COLLEGE OF TECHNICAL AGRICULTURE



Ron Rosati



New Members of the IANR Media Team

Anne Holz



Web Strategist 402-472-1506 anneh@unl.edu

Jason Cooper



Communications & Media Coordinator 402-472-3768 jcooper4@unl.edu

Haley Steinkuhler



Media Specialist 402-472-4398 hsteinkuhler2@unl.edu

Sharing News in IANR News Now

- Send content for consideration to ianrnews@unl.edu
- Content should be sent at least one week in advance (newsletter is sent each Thursday)
- Provide copy and photos (if available)



Omtvedt Innovation Award Teaching



John Rupnow



Omtvedt Innovation Award Research



Janos Zempleni



Omtvedt Innovation Award Extension



Farm Bill Education Team

Jessica Groskoph, Jim Jansen, Tim Lemmons, Brad Lubben, Robert Tigner, Monte Vandeveer, Allan Vyhnalek



Omtvedt Innovation Award Team Award







Precision Ag Data Management

Joe Luck, Nathan Mueller, Laura Thompson

Upcoming Events









October 21-23, 2015 Nebraska Innovation Campus 2021 Transformation Drive Lincoln, NE

October 21-22, 2015 Nebraska College of Technical Agriculture 404 East 7th Street Curtis, NE

Register today - http://rfc.nebraska.edu/







Finding Hope: Pioneering Your Own 40 Chances

Howard G. Buffett

Chairman & CEO
The Howard G. Buffett Foundation

Howard W. Buffett

Lecturer, University of Nebraska – Lincoln

October 21st -- 5:15 pm Nebraska Innovation Campus Conference Center







"A Dialogue on Global Trade in Agriculture"

Clayton K. Yeutter

Former U.S. Secretary of Agriculture Former US Trade Ambassador

Darci Vetter

U.S. Department of Agriculture Chief Agricultural Negotiator

January 12th – 7 pm Nebraska Innovation Campus Conference Center







IANR Tailgate Parties



- Sept 26, Southern Miss, CASNR Alumni
- Oct 10, Wisconsin
- Nov 7, Michigan State

Free food, parking, shuttle to the game!
Held four hours prior to kick-off
Nebraska East Union
IANR.unl.edu/tailgates



New East Campus Recreation & Wellness Center tours....

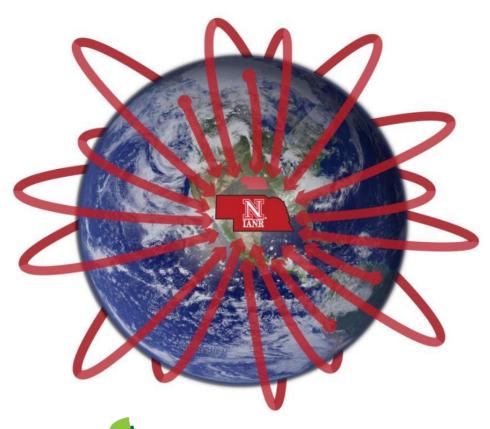
immediately following All Hands Meeting













IANR

FOOD • FUEL • WATER • LANDSCAPES • PEOPLE