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Agricultural Research Division
Nebraska Agricultural Experiment Station

ARD/IANR Research Faculty Meeting

Friday, August 19, 2016

ARD Staff

Jared Evert

Financial and Office Management Specialist

Joined ARD in 2014

- Management Support for the ARD Deans
- Oversight of ARD Finances, Office Operations and Staff
- Strategic management of budgets for IANR and ARD Service Centers
- Biotechnology Quality Management System (BQMS) support
- Reporting for External Research Funding

Open Position

Data Management Specialist

- Strategically Manage Programmatic Data and Reporting for External Research Funding
  - Commodity Boards
  - USDA Capacity & Multi-State Funds
  - USDA REEPORT
  - USDA Plan of Work
  - Biotechnology Quality Management System Support
  - Activity Insight Support
- Assist with management of ARD Finances

IANR

Open Position

Administrative Assistant

- Administrative support for the ARD Deans and Staff
- Event planning, scheduling and special projects
- Travel coordination and reimbursement
- General office support and point-of-contact

Hector Santiago

Assistant Dean and Assistant Director

Joined ARD in 2014

- Support farm/livestock management and business and facility operation at ARDC, Research and Extension Centers and Ag Labs/Ranches
- Represent IANR/ARD on Commodity Boards
- Administrative coordinator for field releases of regulated plant materials, APHIS BQMS Quality Manager
- Assist the Dean and Director, in conjunction with other ARD staff, in coordinating and facilitating IANR's broad research mission
- Contribute to the exploration and development of stakeholder relationships and strategic industry partnerships
- Coordinate IANR Department / Center Academic Program Reviews

Tala Awada

Associate Dean & Associate Director

Joined ARD in 2015

- Co- lead to the Consortium for Integrated Translational Biology (CITB), and the UNL USDA-ARS Long-term Agroecosystem Research (LTAR) Network
- Provides support for team building, transdisciplinary research, and high-performing research teams
- Administers the ARD Undergraduate Student Research competitive grant program, the Graduate Students Fellowship program, and the Larrick/Whitmore Graduate Student Travel Grants
- Serves as the administrative point of contact for Activity Insight
- Assists the Dean and Director, in conjunction with other ARD staff, in coordinating and facilitating IANR's broad research mission

IANR

Deb Hamernik

Associate Dean and Associate Director

Joined ARD in 2009

- Administer the Hatch funding portfolio of regular and multi-state projects and various ARD internal grant competitions for research funding
- Approves IANR external applications for funding and conflict of interest and outside activities reporting in NUgrant
- Leads monthly conversations on Competitive Grant sessions and facilitate faculty interactions and networking with program directors at federal agencies
- Links IANR faculty with UNL resources to enhance competitiveness for external funding and increased scientific impact

Archie Clutter

Dean and Director

Joined ARD in 2011

- Optimize life science, agricultural and natural resources, research capabilities of 40,000+ acres, 250+ research faculty, 4 research centers across the state and an annual budget of $80 million in grants and contracts
- Interact with other administrative leaders on campus and across the country, as well as stakeholders, including commodity organizations, to help shape IANR's life and social science research agenda
- Leverage the unique abilities within ARD for transdisciplinary, integrated research across basic, translational and applied sciences towards the demands of a quickly growing global population
- Core Value Goals for the ARD Culture:
  - Transparency
  - Accountability
  - Collaboration
  - Excellence
  - Value of Feedback
  - Respect
  - Inclusiveness

12:30 p.m. Welcome and Overview (Archie Clutter)

1:00 p.m. Private-Sector Panel: Seeding our Faculty Discussion for the Day – Graduate Training and Team Science

Mike Lohuis, PhD – Director, Environmental Strategy for Agriculture for Corporate Engagement, Monsanto

Rick Sibbel, DVM – Executive Director, US Technical Services, Merck Animal Health

Jeremy Walker, MS – Director, Customer Solutions & Marketing, GeneSeek/Neogen

2:00 p.m. Planning for More Graduate Students/Integrated Graduate Programs in IANR (Andrea Cupp, Chair ARD Advisory Council)

2:10 p.m. Team Science: Assessment and Recognition (Mike Hayes, Chair-Elect, ARD Advisory Council)

2:20 p.m. Breakout Sessions on IANR Graduate Training Programs and Team Science

3:45 p.m. Reports from Breakout Sessions

4:15 p.m. Wrap-Up and Next Steps (Archie Clutter)

4:30 p.m. Happy Hour

Michael M. Lohuis, PhD

Director, Environmental Strategy for Agriculture for Corporate Engagement, Monsanto

- Mike's team is coordinating Monsanto's strategy to address the challenges and opportunities associated with agriculture and the environment, assessing and recommending agricultural strategies to address both adaptation and mitigation of global climate change. Recent efforts have included modeling various strategies for reducing greenhouse gases from cropland.
- Joined Monsanto in 1998 as Lead for Animal Genomics & Breeding and moved in 2097 the Global Plant Breeding Team. He has led teams of scientists in the fields of statistics, crop modeling, patent science, genomics and breeding.
- Assistant Professor in Animal Science at the University of Guelph
- PhD in Animal Breeding and Bachelor of Science in Animal Science at the University of Guelph

Rick Sibbel, DVM

Executive Director, US Technical Services

- Manages 52 field veterinarians, PhD animal scientists and 2 additional MAH support staff. These teams are the field based technical personnel supporting the cattle, swine and poultry businesses in the US. Dr. Sibbel specializes in vaccine and pharmaceutical product development, food animal and food supply issues, antibiotic stewardship issues and food animal veterinary educational issues. In addition to managing the technical services teams, Dr. Sibbel oversees research projects and product development studies comparing licensed animal health products and extensions of product utility in the US Food Animal Business.
- Has played a leading role in the development and launch of the first genetically-engineered pseudorabies vaccine, the first influenza vaccine for swine and a viral-vectored vaccine for poultry. In his 30 plus years in the Animal Health Industry, he has helped license more than 20 vaccines for livestock and poultry.
- Doctor of Veterinary Medicine degree from the Iowa State University College of Veterinary Medicine, and a bachelor of science in Pre-Veterinary Science from the University of Nebraska at Lincoln.

Jeremy Walker, MS

Director, Customer Solutions and Marketing, GeneSeek

- GeneSeek, a subsidiary of Neogen, is the leading commercial agricultural genomics lab in the world, providing comprehensive genomic solutions since 1998. GeneSeek provides genomic solutions for food security inside of the farm gate by providing producers the genomic information they need to make the best decisions for their breeding herds.
- Jeremy is an original GeneSeek staff member and business development lead, and has more than 20 years of high throughput genotyping experience including lab processing, application development, application support, informatics, business development.
- MS degree in Cell/Genetics/Molecular Biology from the University of Nebraska and a Bachelor of Science in Biology from Nebraska Wesleyan University.

Sponsored Projects

	UNL	IANR	% of Total
FY2016 Total Sponsored Funding	267,819,962	119,535,648	45%
FY2016 Sponsored Research Funding	146,902,893	66,036,958	45%
FY2016 Federal Research Funding	116,691,059	47,497,136	41%

IANR

Plant Phenotyping
2016 Request for Applications

Applications must be submitted and routed for administrative approval in NUgrant by 5 PM Central Time on September 19, 2016

ARD anticipates funding 4 team-based projects through this RFA for up to 2 years, starting November 1, 2016
Applications may request funding of no more than $100,000 each

DESCRIPTION and INTENT: In 2014, the Institute of Agriculture and Natural Resources (IANR) at UNL began investment in transformative technologies in high-throughput plant phenotyping platforms that offer the opportunity to integrate proximal remote sensing and imaging measurements of intricate morphological and functional characteristics of plants. This integration is of paramount importance in the quest to link phenomics to genomic expression, optimize yields, achieve crop efficiencies (e.g., water, nutrient, and photosynthetic), understand resistance to biotic and abiotic stresses, and develop biomass for bioenergy and other valuable traits in plants. This investment in cutting-edge instrumentation and supporting infrastructure for plant phenotyping builds on existing programmatic expertise at UNL across the plant sciences including areas of plant and landscape phenotyping, and aligns with capacity growth (hiring) initiatives in these and related areas in IANR.

Collaboration Initiative – Round 2

"Systems Science"

Key Program Elements

- Release basic program information to encourage initial campus discussions. (Early August 2016)
- Formal faculty email announcement, RFA release and retreat registration (Early September 2016)
    - **Food for Health Collaboration Initiative** (phase II): Seed Grants-$150K
    - **System Science Collaboration Initiative**: Planning Grants-$20K and Seed Grants-$150K

Food for Health and System Science Retreat

- **Friday October 28**, Nebraska Innovation Campus
- Participation required to receive funding as a PI/Co-PI

FACULTY

- **Hiring Update**
  - **63 IANR faculty new hires since beginning of 2015**
  - **Summary of hiring initiative over past 5 years**
    - 128 filled
    - 24 searches ongoing

For Discussion

ASSESSING AND EVALUATING CONTRIBUTIONS TO TEAM SCIENCE
AGRICULTURAL RESEARCH DIVISION
INSTITUTE OF AGRICULTURE AND NATURAL RESOURCES
UNIVERSITY OF NEBRASKA

There is a critical need for the formation of transdisciplinary teams to achieve the research, and integrated research, teaching and extension outcomes required to meet the great challenges embedded in the broad mission of IANR. The Agricultural Research Division includes a diverse array of disciplines, and the most specific criteria for evaluation of faculty performance and tenure and promotion are developed within the Units, driven by the requirement of well-documented scholarly accomplishments and impacts consistent with the described position of the faculty member. While it is recognized that important impacts may occur through individual endeavors, impacts consistent with the vision and mission of IANR increasingly require transdisciplinary team-based research, often in teams that integrate aspects of teaching and/or extension.

With that need for communicating and evaluating contributions to teams in mind, criteria are presented below in the form of a set of questions that may be useful for drawing out specific descriptions and metrics of an individual's contributions to team efforts. The criteria are presented today as way to move forward the discussion, and potentially provide a framework for faculty to describe their contributions to teams (including through 360^0 feedback from other team members), and Promotion and Tenure Committees to use in thinking about their evaluation of those contributions and feedback to faculty.

CRITERIA FOR CONSIDERATION OF CONTRIBUTIONS TO TEAM-BASED RESEARCH AND TEAM-BASED RESEARCH INTEGRATED WITH TEACHING AND/OR EXTENSION*

1. What was the individual's role in driving project(s) forward through delivery of key outcomes?
2. What research or integrated research accomplishments of the team can be attributed to the individual?
3. How was each of the individual's contribution(s) essential for the overall success of the project?
4. Was each contribution original rather than a reproduction of the work of others?
5. How are the specific contributions of the individual to collaborative projects regarded in her/his field of research?
6. How did the individual contribute to a culture of collaboration, teamwork and shared responsibilities?

*Based on suggested guidelines for the NCI Center for Cancer Research