2015-2016 Annual Report

NIAA National Institute for Animal Agriculture



From Your Chairman



To our National Institute for Animal Agriculture (NIAA) members, to our leadership, and to our staff, thank you for another successful and productive year. I am honored to be a part of the hard-working NIAA team serving the animal agriculture industry.

The work has continued to support our primary mission of providing opportunity for collaborative discussion across the aquatic livestock, beef, dairy, equine, poultry, small ruminant, and swine communities, and bringing animal agriculture to consensus and action on critical issues that impact all of us. Last year's Annual Conference, "Water and the Future of Animal Agriculture," held in Indianapolis, Ind., is a prime example. The future of animal agriculture is inextricably linked to the availability of water. Without

a plentiful supply, agriculture will cease to exist. The Conference brought important speakers and specialists together to present discussions focused on the issues of sustainability, water use, water regulation, and water quality as they apply to animal agriculture and its place in the world.

The NIAA working group, the National Roundtable for Sustainable Seafood, held a Workshop for aquaculture producers and stakeholders following the 2015 Annual Conference. Discussion centered on aquaculture profitability, energy use efficiency, feed conversion rates, waste minimization, just to name a few.

This November's Antibiotic Symposium in Atlanta, Ga., "Antibiotic Stewardship: From Metrics to Management," brought human and animal health experts together to discuss and work toward increased stewardship in both human medicine and animal health. Throughout the dialogue, attention was focused on specific areas which can be measured as a starting point in order to verify the progress made in reducing antimicrobial resistance.

This year also saw a new Forum co-hosted and presented by NIAA and USAHA. The Equine Diseases Forum held in Denver, Colorado focused on the challenges of equine disease control and protecting the future health of the U.S. equine population. Collaboration, shared experience, and enhanced communications are key to improving disease control efforts.

The 2016 Annual Conference, "From Farm to Table—Food System Biosecurity for Animal Agriculture" in Kansas City, Mo., followed by a one day BVD Forum, continues to demonstrate how we are serving our animal agriculture industry by following and exploring the issues which affect us all, as well as concentrating efforts when and where new needs arise.

The animal agriculture leadership who join together at NIAA to volunteer as a group of peers to drive positive change within animal agriculture continues to be the strength of our organization. I am proud to have served and look forward to seeing what happens next.

Sincerely. IGlenn⁴Fischer

2015-2016 Annual Report

NIAA Board of Directors

As a member-driven non-profit, the National Institute for Animal Agriculture works to unite and advance the aquatic livestock, beef, dairy, equine, poultry, small ruminant, and swine industries comprising animal agriculture.

NIAA's Board of Directors represents a cross-section of state and national association leadership, private practice and government veterinarians, extension specialists, educators, researchers, state and national government regulatory personnel, producers, and allied business professionals.

NIAA's volunteer Board of Directors governs the organization, provides continuity for the organization, monitors programs and services, and accounts to the members and the public for the operations and services of the organization and expenditures of its funds.

NIAA provides industry professionals with opportunities for knowledge and education leading to improvement in food animal production. Its focus is to create a safer and continuingly wholesome food supply, improved animal care and handling, and the eradication of costly diseases threatening the health of the country's domestic animal population.

Executive Committee



CHAIRMAN OF THE BOARD Mr. Glenn K. Fischer Allflex, USA



VICE CHAIRMAN Dr. Tony Forshey Ohio Department of Agriculture



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Dr. Michael Coe Animal Profiling, Inc.



Ms. Chelsea Good Livestock Marketing Association



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Mr. Todd Low Hawaii Department of Agriculture



Mr. Kevin Maher PetMeasure, DBA Maher Technologies, LLC



Mr. John Saunders IMI Global



Dr. Rick Sibbel Merck Animal Health



Mr. Victor Velez California Department of Food & Agriculture

2015 Annual Conference Overview

Water and the Future of Animal Agriculture MARCH 23-26, 2015 · INDIANAPOLIS, IN





Ms. Deb Kristensen – Partner at Givens Pursley, LLP.

The future of animal agriculture is inextricably linked to the availability of water. Without a plentiful supply, agriculture would cease to exist. Last year's Annual Conference, "Water and the Future of Animal Agriculture," held in Indianapolis, Ind., March 23–26, 2015, brought important speakers and specialists together to present discussions focused on the issues of water sustainability. Presentations and discussions focused on water use, water regulation and water quality as they apply to animal agriculture and its place in the world.

As drought conditions dominate headlines, the prospect of running out of fresh, clean water is an ever-growing concern. Hydrologists are seeing a regional shift in annual rainfall across the world. Great strides are being made on the technological front, allowing farmers to use resources more efficiently. Producers are preparing for a future with

increasingly limited resources, while maintaining yields and profitability. New growing systems must be an option to combat long term climate change.

Keynote speaker, Jay Famiglietti, PhD, Associate Professor at University of California, Irvine and Senior Water Scientist at the NASA Jet Propulsion Laboratory, gave the presentation "21st Century Water Security and Implications for Animal Agriculture." More than ever before, technology is allowing scientists to track the amount of groundwater on earth. According to Famiglietti, NASA's Gravity Recovery and Climate Experiment (GRACE) is tracking the amount of water in snowpack and groundwater on a monthly basis across the globe. It is also being used to develop computer models to predict how water resources may change in the future. Aubrey Bettencourt, Executive Director of the California Water Alliance, presented "Grab Your Whiskey – The Fight for Water in the 21st Century." The "water war" is not just about water. Society has shifted from an agrarian basis to that of a consumer. Less than 1% of the population is active in agriculture, compared to 25% in the 1940s. Yet the United States is producing 2.6 times as much product today. The myth that it takes 2,400 gallons of water to produce a single pound of beef may have been true 30-40 years ago, but today it takes just 441 gallons of water to do so.

Other speakers included Frederick Kirschenmann, Distinguished Fellow for the Leopold Center and President of Stone Barns Center for Food and Agriculture in Pocantico Hills, New York. Kirschenmann focused on "Defending Animals and Water." Chris van der Loo, Marketing Director for the Water Solutions segment of the Agriculture Division for Trimble Navigation, presented "Irrigation Technology to Address Farmers' Varying Needs: Water Efficiency & Optimization, Improved Yields and Reduced Runoff." Van der Loo currently leads a team dedicated to developing high–performance solutions for the diverse Global Agriculture markets currently struggling with irrigation and water drainage challenges.

2015 ANNUAL CONFERENCE PLANNING COMMITTEE

Ms. Kathryn Britton, *Marketing & Communications Director, Where Food Comes From/IMI Global, Inc.* Mr. Michael Coe, *Animal Profiling International, Inc.* Dr. Nevil Speer, *Individual Member*



Post Annual Conference Workshop: NIAA Roundtable for Sustainable Seafood

Following the close of the NIAA Annual Conference on Wednesday afternoon, March 25th and concluding after a full day on March 26th, the National Roundtable for Sustainable Seafood (NRSA), a Stakeholders Working Group of the National Institute for Animal Agriculture hosted a oneand-a-half day Workshop for aquaculture producers and stakeholders. The National Roundtable Workshop worked to define aquaculture sustainability in the U.S.

Facilitating the NRSA Workshop was Marty D. Matlock, Ph.D., P.E., B.C.E.E., Professor of Ecological Engineering, University of Arkansas and Executive Director, Office for Sustainability Biological and Agricultural Engineering. Dr. Matlock led discussions on the development of metrics to improve aquaculture profitability, energy use efficiency, feed conversion rates, and waste minimization.



Dr. Matlock discussing key performance indicators

"The workshop was designed to stimulate stakeholder input and discussion on defining Key Performance Indicators (KPIs) for a growing, vibrant, profitable and sustainable U.S. aquaculture industry." — Dr. David Scarfe

In keeping with one of its key missions of offering its members continuing education to meet professional requirements, seven CU credits from American Registry of Professional Animal Scientists (ARPAS) were awarded for this Workshop.

Antibiotics Symposium V

NIAA hosted its fifth antimicrobial resistance (AMR) symposium in the series with this year's event entitled *Antibiotic Stewardship: From Metrics to Management*. An extraordinarily complex issue, AMR is a global concern held by individuals and groups ranging from human and animal health professionals, to hospitals and healthcare organizations, to farmers and companies engaged in animal and field crop agriculture.

Stakeholders who use or prescribe antibiotics, as well as consumers of healthcare and food products, are changing and re-examining their practices as they seek to address external expectations while evolving their own understanding of the AMR problem. NOVEMBER 3-5, 2015 • ATLANTA, GA

to Management

Stewardship:

From Metrics

Antibiotic

This symposium created a unique forum by bringing varied industries and industry professionals together to take the first step in discussing, debating and creating quantifiable metrics for evaluating and improving antibiotic use, and reducing the risk of resistant infections in people and animals.

Symposium attendees benefitted from plenary presentations on current stewardship efforts in animal and human health, and used the information presented to develop these measures:

- 1. The percentage of states with ongoing, working committees overseeing collection and dissemination of data on antimicrobial resistance from human, animal and environmental sources
- 2. The number of useful and practical new diagnostic tests for the rapid identification and characterization of infection and AR (developed within a specific time frame)
- 3. Proportion of production units that have a documented Veterinarian-Client-Patient Relationship (VCPR) with at least one veterinarian
- 4. The degree to which new and alternative interventions are being used in practice by veterinarians

Symposium attendees agreed that difficulties in reaching consensus and implementing metrics must be overcome. All stakeholders have a direct interest in evaluation and continuous improvement in antibiotic stewardship.

Symposium Planning Committee Co-Chairmen

Dr. Brian Lubbers, *Kansas State University* Dr. Eric Moore, *Norbrook, Inc.*

Symposium Planning Committee Members

Dr. Kelley Garner, Arkansas Department of Health

- Dr. Annette Jones, California Department of Food and Agriculture
- Dr. Barbara Mahon, Centers for Disease Control and Prevention
- Mr. Jeff Morelli, Centers for Disease Control and Prevention
- Dr. Gatz Riddell, American Association of Bovine Practitioners
- Dr. Tom Shryock, Antimicrobial Consultants, LLC
- Dr. Steve Solomon, Global Public Health Consulting, LLC
- Dr. Nate Smith, Arkansas Department of Health
- Dr. Susan Weinstein, Arkansas Department of Health

Committees and Councils

The National Institute for Animal Agriculture serves the animal agriculture industry by providing opportunities to build consensus across the aquatic livestock, beef, dairy, equine, poultry, small ruminant, and swine communities. NIAA extends continuing education and communication linkages to animal agriculture professionals across the industry. NIAA is dedicated to eradicating diseases endangering the health of animals, wildlife and humanity; promoting a safe and wholesome food supply for our nation and the world; and advancing best practices in environmental stewardship, animal health and welfare.



Aquatic Livestock Committee

To advance sustainable aquatic livestock (aquaculture) industries, by addressing key issues relevant to farmed aquatic animal health, well-being, seafood safety, public health and environmental concerns.

Co-Chairs: Ms. Angela Caporelli – Kentucky Department of Agriculture Mr. Todd Low – Hawaii Department of Agriculture



Bovine Committee

The committee objectives are to facilitate the development and implementation of programs to control and eradicate beef and dairy cattle diseases and programs to assure the wholesomeness of food products derived from milk and beef.

Co-Chairs: Dr. Nathan Dewsbury – Thermo Fisher Scientific Dr. Anthony Good – Select Sires, Inc.



Equine Committee

To address key equine health issues relevant to the economic well-being of the U.S. equine industry. *Co-Chairs: Dr. Carl Heckendorf – Colorado Department of Agriculture Dr. Thomas Lenz – Zoetis*

Poultry Committee

To work in cooperation with and build consensus among poultry organizations, to share educational materials and advance solutions for healthy, safe and secure poultry production.

Co-Chairs: Dr. Hector Cervantes – Phibro Animal Health Dr. Terry Slaten – Alabama Department of Agriculture and Industries



Small Ruminant Committee

To work in cooperation with the sheep and goat industries to address the animal health and care challenges of those industries.

Co-Chairs: Mr. Ron Miller – Pennsylvania Department of Agriculture Mr. Paul Rodgers – American Sheep Industry Association



Swine Committee

To develop a comprehensive swine health agenda that includes regulatory animal health, animal welfare, biosecurity and food safety assurance.

Chair: Dr. Harry Snelson – American Association of Swine Veterinarians



Animal Care Council

To identify and monitor issues surrounding the care and handling of livestock and to develop resources and educational materials for distribution to industry, producers, educators and other individuals interested in livestock care issues.

Co-Chairs: Mr. Ernie Birchmeier – Michigan Farm Bureau Mr. Jim Fraley – Illinois Farm Bureau



Animal Health Emergency Management (AHEM) Council

To provide a forum for representatives from animal agriculture, the veterinary profession, governmental agencies and academia to address animal health emergency management (AHEM) issues that may adversely affect animal agriculture or public health.

Co-Chairs: Dr. Renee Dwelle – Iowa State University

Dr. Lucas Pantaleon – Virox Technologies



Animal Identification & Information Systems Council

To play an important role in bringing unresolved issues such as advocating cost-effective technologies and systems for modernizing the identification of livestock that has significant implications for residue avoidance, disease control and providing management information to producers.

Co-Chairs: Dr. Robert Fourdraine – AgSource Cooperative Services Dr. Boyd Parr – Clemson University



Antibiotics Council

To enhance an animal agriculture industry that is aligned with judicious antibiotic use policies and practices. The mission of the Antibiotics Council of NIAA is to facilitate and encourage:

- 1. The judicious use of antibiotics in food animal production to ensure public health, food safety, animal health and welfare
- 2. Applying sound sciences as the basis for decision making and policy development regarding antibiotics in food animal production
- 3. Education and communication on the role, benefits, risks and most current information on antibiotic uses in food animal production
- 4. Leadership and partnership with food chain stakeholders (from farms to consumers to allied industry, etc.) to promote judicious antibiotic use policies and practices

Co-Chairs: Dr. Patrick Gorden – Iowa State University Dr. Eric Moore – Norbrook, Inc.



Emerging Diseases Council

Stay abreast of emerging animal diseases and educate the NIAA membership about them. Create resolutions and position statements regarding emerging animal disease issues, which are aimed at benefiting animal health and U.S. animal agriculture.

Chair: Dr. Carla Huston – Mississippi State University

Global Animal Health, Food Security & Trade Council

Identify current problems with national and international trade by cross-disciplinary discussion between government, academia, and industry and recommend solutions through the novel application of information, communication, and technology.

To enhance and assure the wholesomeness of products derived from livestock and to encourage research to identify, develop and implement management strategies to avoid and eliminate contamination from products derived by livestock.

By action of the NIAA Board of Directors and Committee concurrence, the Animal Health & International Trade and Animal Production Food Safety & Security Committees have been merged into the Global Animal Health, Food Security & Trade Council.

Co-Chairs: Dr. Leonard Bull – Logical Solutions Consulting, LLC Dr. Linda Hickam – Missouri Department of Agriculture

NIAA Membership Levels and Benefits

Overview of membership tiers

Services and Benefits

- Serve on Committees & Councils be integrally involved in addressing key issues affecting animal agriculture
- Become a Leader utilize talents and enhance your leadership portfolio by serving with a prominent national organization
- Voting Rights allows you to influence industry direction
- List Serves peer-to-peer interaction and discussion on timely topics
- Receive News & Information for Animal Agriculture
- Weekly News Bulletin stay abreast of industry news and information relating to key issues in animal agriculture
- Virtual Membership Directory be listed with a direct link to member organization sites
- Discounts on Meeting Registrations save money on educational meetings/conferences/continuing education opportunities

Membership in the NIAA is open to all persons and entities, subject to review and approval by the NIAA Board of Directors. Membership in the NIAA is not based on race, color, national origin, age, disability, sex, religion or political beliefs. The NIAA provides a forum for open discussion on differing viewpoints affecting agriculture. However, NIAA's Board of Directors reserves the right to deny an application for membership when, in its sole discretion, it determines that an applicant's membership will be unduly disruptive or contrary to the mission and goals of the NIAA.

Membership Categories

National Associations and Commercial Organizations

Membership for organizations and corporations that operate at a national or international level, as well as federal agencies (such as USDA, APHIS, FSIS, FDA and DHS). Multiple organization contacts permitted within this membership, full voting privileges.

State Level Associations & Publicly Supported Institutions/Agencies

Membership for state government agencies, diagnostic laboratories, university-affiliated groups or associations that operate at a state level, and also federal agencies at regional locations. Multiple organization contacts permitted, full voting privileges.

Individuals (Self-Employed)

Membership for self-employed or small entities, such as producers, practitioners, retirees or others that do not fit a state or national level membership. Single contact, full voting privileges.

NIAA Mission

- Providing a forum for building consensus and advancing proactive solutions for animal agriculture
- Providing continuing education and communication linkages to animal agriculture professionals
- Providing a platform across animal agriculture for networking and gaining mutual insight

NIAA's purpose is to provide a source for individuals and organizations to obtain information, education and solutions for challenges facing animal agriculture.

2015 NIAA Membership

As of March, 2016

National Members

American Assn of Bovine Practitioners American Assn of Swine Veterinarians American Assn of Vet Lab Diagnostics American Dairy Goat Association American Farm Bureau Federation American Feed Industry Association American Humane Certified American Sheep Industry Association American Veterinary Medical Association AquaBounty Technologies Dairy Farmers of America, Inc. DeLaval Inc. Elanco Holstein Assn USA, Inc. Livestock Marketing Association National Livestock Producers Association National Pork Board National Pork Producers Council National Renderers Association. Inc. National Swine Registry

Commercial Organizations

AgSource Cooperative Services Allflex (incl. SCR and Biomark) Alltech, Inc. Animal Profiling International, Inc. APC. Inc. Boehringer Ingelheim Vetmedica Inc. Cooper Farms Inc. Dairy Records Management Systems Dairylea Cooperative Inc. Darling Ingredients, Inc. EQ AG Solutions, LLC Equity Cooperative Livestock EZ -ID/AVID ID Systems Farm Credit Fort Supply Technologies, LLC GEA WestfaliaSurge, Inc. GlobalVetLINK HANA Micron America/AniTrace Harrisvaccines, Inc. Hawkeye Steel Products, Inc. IDEXX Livestock, Poultry and Dairy IMI Global, Inc. Merck Animal Health

Moly Manufacturing, Inc. MWI Veterinary Supply Neogen Corperation Norbrook Phibro Animal Health Qiagen, Inc. Select Sires Shook, Hardy & Bacon LLP Smith-Bucklin United Soybean Board Thermo Fisher Scientific Trace First Virox Technologies Wiechman Pig Co., Inc. Y-TEX Corp. Zoetis Animal Health

State Members

Alabama Cattlemen's Association Alabama Dept of Agriculture & Industries Alaska Dept of Environmental Conservation Arizona Dept of Agriculture Arkansas Farm Bureau Arkansas Livestock & Poultry Commission California Dept of Food & Agriculture California Farm Bureau Federation Colorado Dept of Agriculture Colorado State University Delaware Dept of Agriculture Florida Dept of Agriculture & Consumer Services Florida Farm Bureau Federation Georgia Dept of Agriculture Hawaii Dept of Agriculture Idaho State Dept of Agriculture Illinois Farm Bureau Indiana Soybean Alliance Indiana State Board of Animal Health lowa Dept of Agriculture & Land Stewardship lowa Dept of Homeland Security and **Emergency Management** Iowa Farm Bureau Federation Iowa Pork Producers Association Iowa State University Kansas Dept of Agriculture

Kansas Farm Bureau Kansas State University Kentucky Dept of Agriculture Louisiana Farm Bureau Federation, Inc. Michigan Dept of Agriculture & Rural Development Michigan Farm Bureau Federation Michigan Pork Producers Association Minnesota Board of Animal Health Minnesota Pork Board Mississippi Board of Animal Health Mississippi State University Missouri Dept of Agriculture Montana Dept of Livestock Nebraska Dept of Agriculture New Jersev Dept of Agriculture New Mexico Livestock Board New York Dept of Ag & Markets North Carolina Dairy Producers Association North Carolina Pork Council, Inc. North Dakota Dept of Agriculture Ohio Aquaculture Association Ohio Dept of Agriculture Ohio Farm Bureau Oklahoma Dept of Agriculture, Food, & Forestry Ontario Pork Producers Marketing Board Oregon Dept of Agriculture Pennsylvania Dept of Agriculture South Dakota Animal Industry Board South Dakota State University Tennessee Dept of Agriculture Texas Animal Health Commission Texas Cattle Feeders Association Texas Christian University Texas Farm Bureau Texas Veterinary Medical Diagnostic Lab The Ohio State University Tri-State Livestock Credit Corp. Utah State Dept of Agriculture Washington State Dept of Agriculture West Virginia Dept of Agriculture Wisconsin Dept of Agriculture, Trade, & **Consumer Protection** Wisconsin Livestock Identification Consortium Wyoming Livestock Board

2015 NIAA Membership continued

As of March, 2016

Publicly Supported Institutions

American Goat Federation Auburn University Beef Cattle Institute Center for Food Security & Public Health Clemson University Farm Credit Services of Mid-America National Livestock Commission Association Northwest Dairy Association Producers Livestock Marketing Association Southeast United Dairy The University of Connecticut University of California – Davis System University of Kentucky University of Missouri VMDL University of Tennessee

Individual Members

- Dr. Leonard Bull Mr. Keith M. Detrick Mr. Terry Detrick Dr. Pernilla Fajersson Dr. Mark FitzSimmons Dr. Dave Fly Dr. Temple Grandin Dr. Bill Hollis Dr. Barb Howe Mrs. Marcine Moldenhauer Dr. Helen Noble Dr. Margaret Rush
- Dr. Don Sanders Dr. Thomas Shryock Dr. Julie Smith Dr. Nevil Speer Dr. John Thomson

NIAA STAFF



R. Scott Stuart Managing Director



Katie Ambrose Chief Operating Officer



Mona Wolverton Events Coordinator



Bobbie Williams *Finance*



Polly Welden Marketing/Communications

NIAA Annual Awards



Chairman's Award

Dr. Kevin Maher, Maher Technologies, GlobalVetLINK (left) was honored with the Chairman's Award as an outstanding volunteer, recognizing his unselfish dedication and tireless devotion to the advancement of animal agriculture. The Chairman's Award was presented by Glenn Fischer, Allflex, (right).



Meritorious Service Award

This Award was presented posthumously to Dr. James McKean. The Meritorious Service Award is given in recognition of leadership, dedication and contributions to the organization and animal agriculture. The Award was presented by Dr. Patrick Webb (center) and accepted by Dr. McKean's daughter Maura (left), and wife Ellen (right).



President's Award

Todd Low, Hawaii Department of Agriculture was recognized with the President's Award, presented to an NIAA committee or council chairman or vice chairman for exemplary leadership and dedication to the organization. The President's Award was presented by R. Scott Stuart, Managing Director, NIAA. Pictured, Katie Ambrose, NIAA COO and Todd Low (right).



Advocate for Animal Agriculture Award

NIAA's Advocate for Animal Agriculture Award honors individuals who effectively build bridges with consumers by delivering strong, positive messages about animal agriculture. This year's recipients were Tony M. Forshey, DVM, State Veterinarian, Ohio Department of Agriculture Animal Health (right) and Lanny W. Pace, DVM, PhD, Diplomat ACVP, Executive Director, MS Veterinary Research & Diagnostic Laboratory System, Mississippi State University (left), pictured with Katie Ambrose, NIAA COO (center).



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For more information or to join, please visit AnimalAgriculture.org

