

**Minutes**  
**National Animal Nutrition Program – NRSP-9**  
**Conference Call – Coordinating Committee**  
**February 8, 2016**

Members Present: Gary Cromwell (Past Chair); Merlin Lindemann (Incoming Chair); Todd Applegate; Don Beitz; Joel Caton; Ryan Dilger; Mike Galyean; Delbert Gatlin; Nancy Irlbeck; Heidi Rossow; Carey Williams

Members Absent: Jack Odle

Administrative Advisors Present: Bret Hess

National Academies/NRC Present: Austin Lewis

USDA NIFA Present: Charlotte Kirk Baer

Administrative Support Present: Lynne White-Shim

**1. Call to Order**

The meeting was called to order at 1:04 PM Eastern time by Cromwell. Roll call was taken, and a quorum was present. The committee received as information a newly revised agenda.

**2. Introduction of members of the Coordinating Committee, Advisors, Charlotte Kirk Baer, Austin Lewis, and Lynne White-Shim**

The Committee received information regarding its members, Advisors, USDA NIFA staff, National Academies staff, and administrative staff. The Committee received an update from Cromwell that he will serve in the Past Chair capacity for a minimum of one year. Lindemann will preside over the subsequent meetings.

**3. Minutes of September 15, 2015 conference call (delay approval until next meeting).**

The Committee received as information the draft minutes of its September 15, 2015 meeting.

**4. Brief overview:**

**a. Role of NRSP (National Research Support Program)**

The Committee received as information a verbal update from Kirk Baer regarding the NRSP, specifically that federal funds are provided for research that have national impact. Experiment station managers identified 13 that are active at the time and are high-priority issues for next 5 years.

**b. NRSP-9 structure – funding, committees, terms of service, etc.**

Kirk Baer provided a verbal update regarding key committees related to the charge of the Coordinating Committee. The Coordinating Committee was established to assemble, synthesize, and disseminate information relevant to NRSP-9. The Committee established a Feed Composition Committee to support a clearinghouse of information related to feed composition. It also

established a Nutrient Modeling Committee with a similar purpose focused upon modeling nutrient requirements and animal performance.

c. Role of the Coordinating Committee

The Committee received information from Kirk Baer related to the Committee's oversight of feed composition and modeling committees and its role as an active forum to discuss research support needs, to organize summits (like in 2015), to identify research priorities, and to advise the National Academies related to critical priorities.

d. Visit website <https://nanp-nrsp-9.org>

The Committee received information from Cromwell related to the value of the information housed at the website.

e. Register at NIMSS (National Information Management and Support System) site [www.nimss.org](http://www.nimss.org) - Appendix E

Cromwell and Lindemann provided information regarding the website. Committee members were encouraged to register and to contact their experiment station director if they have questions.

**5. Review slate of recommended and approved members of Feed Composition Committee and Modeling Committee (see attachments)**

The Committee received a verbal update from Cromwell that committee member applications were reviewed for years of experience, work, diversity, and area of expertise. Balance was sought across the regions wherever possible. Early-career animal scientists were balanced with longer-term faculty.

The Committee received as information a document titled "National Research Support Project (NRSP-9) National Animal Nutrition Program. Proposed Membership - 1/18/2016." Beitz submitted a motion to approve the slate of members as presented. Galyean seconded the motion. The Committee approved the motion. Cromwell will contact prospective committee members to ensure their willingness to serve and will send regrets to nonselected applicants.

**6. Collaboration with NRC**

The Committee received a verbal update from Lewis, who serves as the primary contact with NRC. He shared that beef and dairy committees are currently active, and that funds are being sought for a poultry committee.

**7. Monthly conference calls**

The Committee received a verbal update from Cromwell that one-hour calls are typically held on Thursdays at 2 PM Eastern time, with the next call to be held in March. A quorum is necessary to conduct official business. Lindemann will identify possible timeframes for a call in March.

**8. On-site meeting (Washington DC)**

The Committee received a verbal update from Cromwell related to in-person meetings, which are typically held at USDA in Washington, D.C. The next in-person meeting is targeted to be held in April with specific dates to be determined.

### **9. Travel expenses – submitted to and paid by University of Kentucky**

The Committee received a verbal update from Cromwell that travel expenses related to in-person meetings must be submitted to the University of Kentucky to the attention of Lindemann or Cromwell. Cromwell will provide specific travel expense requirements at a later date.

### **10. Exhibition booth at Midwest ASAS/ADSA (Des Moines, March) and JAM (Salt Lake City, July)**

The Committee received a verbal update from Cromwell related to the success of holding exhibition booths at Midwest ASAS/ADSA meeting. Hewan Tran has agreed to coordinate the booth this year again in Des Moines should the Committee agree. Additionally, a booth space at the JAM in Salt Lake City is anticipated to be available, and Committee members will be needed for assistance at the booth. There is a small cost with handout material, tables, and poster associated with the booth. Beitz submitted a motion that the NANP Coordinating Committee host a booth at Midwest ADSA/ASAS and JAM in Salt Lake City. Caton seconded the motion. The Committee approved the motion.

### **11. Other items**

#### **a. Postdoctoral assistance**

Cromwell provided a verbal update to the Committee related to the anticipated need for a national search for applicants to support a postdoctoral associate's service to the Nutrient Modeling Committee.

#### **b. Information technology support**

Applegate suggested that as subcommittees are established, an information technology infrastructure for committees anticipated. Cromwell shared that the Committee will be asked to discuss infrastructure contracting opportunities at a future date.

#### **c. Committee feedback**

Lindemann will reach out to Committee members for feedback related to the Committee's past efforts and future activities.

### **12. Adjourn**

The meeting was adjourned at 1:57 PM Eastern time.

## **Minutes**

### **National Animal Nutrition Program – NRSP 9**

#### **Meeting of the Coordinating Committee**

**USDA Waterfront Building, Washington, D.C.**

**April 13-14, 2016**

Members present: Merlin Lindemann (Chair), Gary Cromwell (Past Chair), Don Beitz, Joel Caton, Delbert Gatlin, Nancy Irlbeck, Jack Odle, Heidi Rossow, Carey Williams

Members absent: Todd Applegate, Ryan Dilger, Mike Galyean

Administrative Advisors Present: Bret Hess

National Academies/NRC Present: Austin Lewis

USDA NIFA Present: Charlotte Kirk Baer

Administrative Support Present: Lynne White-Shim

#### **1. Call to Order**

The meeting was called to order at 7:52 AM EDT by Lindemann. Roll call was taken, and a quorum was present. The committee received an agenda for the meeting.

#### **2. Introductions; personal comments of attending members of the Coordinating Committee, Administrative Advisors, and other associated administrative or support personnel**

Lindemann welcomed the committee, provided the committee with a verbal orientation to the building, and facilitated general introductions. The committee received a copy of the roster. Cromwell, for the benefit of new members, described how the committee adds value through overseeing a feed composition database and current nutrition models. During its first 5-year term, the committee concentrated on beef, dairy, swine and poultry. The committee's charge for its second term has been expanded to include horses, fish, and small ruminants. Therefore, the committee was expanded from 8 to 12 members following a national search for additional members.

Hess described the strong interest by the experiment station directors in the committee documenting the projects real impact on industry, economics, society, and the environment by the time of its midterm review (May 2018). Demonstration of the project's impact by the time of its next renewal is anticipated to be a factor in achieving another renewal. Hess conveyed that 11 NRSPs

have been in existence and currently there are 8 that are active, with another proposed NRSP related to the collection of data on ag-related topics to standardize data collected on corn, beans, dairy, and beef. The group discussed the value of various tactics for raising awareness. Following discussion, the group achieved consensus to ask Caton to seek a 1-page review opportunity with the Journal of Animal Science related to the role, future role, and impact of the NANP.

### **3. Previous, ongoing, or old business items**

a) The committee received the following documents:

- A poster titled “The National Animal Nutrition Program,”
- A document titled “National Animal Nutrition Program, National Research Support Project Strategic Plan,”
- A booklet titled “Animal Nutrition Research Priorities for a Healthy Society,” and
- A flyer titled “Toward a Healthy Future: Animal nutrition research for a better tomorrow.”

b) Minutes

The committee received the September 15, 2015 conference call minutes. Lindemann provided an overview. It was MSC (moved, seconded, and carried) to approve the minutes as distributed. The group discussed the need for maintaining adequate records with regard to action items, and Kirk Baer shared information relating to an area of the NIMSS website available for such recordkeeping. The action items of Agenda Item 8 of the September 2015 minutes were reviewed and discussed.

Additionally, the committee received the February 2016 conference call minutes. It was MSC to approve the minutes as distributed.

c) NRC poultry nomination report

The committee received a verbal update related to the NRC poultry nomination report. Lindemann reported that names were submitted from the Coordinating Committee. Lewis reported the nomination deadline was March 25 but the nomination deadline potentially will be extended. Robin Schoen identified about \$250,000 from feed ingredient and genetics companies; more will be sought from non-financially interested sources. No start date has been established for the poultry committee. Lindemann shared that NAS reportedly encouraged an increase in the committee roster, longer project duration, with a likely increased budget.

d) Abstract submitted for JAM by Tran et al.

The committee received a verbal update from Cromwell regarding the abstract. The possibility of abstracts submitted to national meetings being written as full papers published in journals was discussed which could be explored with the program committee chair. The committee also

discussed that it could explore with the ASAS Board a possible sponsorship of a review on feed composition databases for livestock species; during the discussion, it was noted that an invited review would actually involve no publication costs.

e) Exhibition booth at Midwest ASAS/ADSA (Des Moines) and JAM (Salt Lake City)

The committee received a verbal update from Lindemann that the booth at the Midwest meeting was attended by industry, students, and faculty inquiring about the charge, communications, impacts, and benefits of the NANP program. At the NANP booth at JAM, a laptop monitor will display the NANP's website. The committee discussed the need for tackling certain activities prior to the JAM, namely, updating the website to illustrate the NANP's achievements, relaying information to ASAS/ADSA attendees, and presenting pens and flash drives for attendees to take.

f) Travel expenses paid by University of Kentucky

The committee received a worksheet and documents titled "Expenses for NRSP-9 Travel Activity" and "Policy for Requesting Funding of NRSP Activities." The committee was informed that members should mail to Cromwell all applicable worksheet information and original receipts, along with a W9 if needed.

#### **4. New business items or updates**

a) Experimental Biology meeting

The committee received a verbal update from Odle. At the EB meeting in San Diego, a need was described by Steve Watts at U of Alabama relative to zebrafish (a primary NIH research species), specifically asking for updated requirements/diets for lab animal species. Standardized diets are needed to help minimize diet variation; there are standard diet reporting requirements except there are no national guidelines for doing this appropriately to minimize confounding. The value of the coordinating committee overseeing such dietary developments was described. A preconference workshop could be done before the EB meeting in Chicago in 2017 with relevant stakeholders (ASN, American Physiologic Society, zebrafish society). The committee achieved consensus to ask Gatlin to correspond with Watts to gauge interest. The committee learned from Kirk Baer that a proposal could be submitted to NIH; this was done in 1994.

b) Distribution of Animal Nutrition Research Priorities for a Healthy Society publications

The committee received a verbal update about the publication. The value of identifying the full range of stakeholders to receive the publication was conveyed, including animal science departments and experiment station directors. The group discussed sending the publications to various groups, and Hess and Kirk Baer agreed to identify the list of experiment station managers, deans, directors/associate directors, deans of vet schools, One Health directors; additionally, communication about the publication will go out through ESCOP/ KGlobal (NIFA has a list). Any correspondence with APLU will be coordinated through Hess. Lindemann and

Beitz will coordinate preparation of a cover letter, and Beitz will work with White-Shim to mail out the copies as applicable.

c) Stakeholders and partners

The committee had a group discussion about identifying stakeholders and partners and discussed their engagement. Ideas for activities included an opportunity to review the website and identify ways to create visibility around it including crosslinking and coordination with ASAS, creation of predeveloped NANP profile/visibility seminars, a YouTube video that could be given to universities or otherwise made available to animal scientists and veterinarians. The committee shared stakeholders who may be given this information including students and creation of NANP scholars, industry, AFIA, animal commodity groups, food processors, FDA, ILSI, and feed companies. The committee received the budget spreadsheet that illustrated 1-year and 5-year budgets. Kirk Baer relayed the need for close coordination with NRC related to funding. The committee also discussed its interactions with ChalkLabs. If another vendor is used at any point in the future, the group discussed the need for saving the current website information potentially through box.com.

d) Monthly conference calls - establish best windows of time availability

After discussion, it was agreed that conference calls will be held on the third Thursday of each month at 2 PM EDT. The next call will be May 19.

e) Update from Feed Composition committee

Lindemann shared that the committee members were identified in February and the committee chair intends to hold an in-person meeting this summer or early fall. Cromwell updated the committee on the "Policy for Requesting Funding of NRSP Activities." A request to the coordinating committee for such a meeting would be processed within 30 days per the current process. It was MSC to notify the committee to proceed with the in-person meeting. Lindemann reported that the new beef feed composition data was uploaded but not yet visible. Dr. Tran is reviewing the dairy feed composition data set for amino acid values and it is close to complete.

f) Update from the Modeling committee

The committee received an update from Cromwell and Lindemann regarding the Modeling committee's activities. The committee has inquired whether support would be available for a breakfast meeting at the summer JAM meetings. The group discussed the various benefits and costs of covering the costs of short meetings by its Modeling and Feed Composition Committees. It was MSC that as long as the Modeling and Feed Composition Committees' business meetings are dedicated to the activities of their respective charges, the NANP Coordinating Committee will cover travel, lodging, and meal associated with those business meetings. It was noted that substantive business and orientation of new members would probably take at least ½-1 day.

Rossow shared that information coming from the Modeling Committee has been posted for the Coordinating Committee on the website including nutrient requirement models, running different meta-analyses, and a tutorial from Dr. White on how to run them; the modeling committee has also started working on a multispecies interface for diet formulations for teaching, updating models that already exist. Cromwell shared with the committee that there was both international and domestic interest in the postdoctoral associate positions associated with each subcommittee. Kirk Baer and Lindemann shared that the chairs of subcommittees created the descriptions and served as the selection committee. The group discussed the value of the Modeling Committee creating a job description for the postdoctoral associate it seeks to utilize; Lindemann will ask the Modeling Committee to draft such a description for the Coordinating Committee's review.

g) Website updates and ideas for project (<https://nanp.nrsp.org>) and expert network (<http://gannnanp.org>)

The group held a discussion about the value of maintaining a contract with ChalkLabs for the website in contrast with seeking another vendor. Some members of the committee conveyed the value of utilizing ChalkLabs, citing adequate communications by ChalkLabs, positive outlook, timeliness in their responses, and current capability of ChalkLabs to continue housing the infrastructure for the global expert network. Other members conveyed concerns regarding miscommunications between the committee and ChalkLabs, cost of ChalkLabs services with no clear value and itemizations, and lack of clarity regarding if, or whether, ChalkLabs can respond to committee needs in a timely way.

To provide broader context, Kirk Baer provided an historical update that USDA has utilized ChalkLabs services for other activities while recognizing the work ChalkLabs conducts is very different across contracts. The Coordinating Committee originally selected ChalkLabs due to its capability to manage large data sets needed for databases. Kirk Baer shared that the present website looks a certain way due to the specific direction provided by the Coordinating Committee to ChalkLabs. Lindemann will collect input from the Modeling and Feed Composition Committee chairs and seek specific needs for the website to be completed by July 1. Cromwell will seek specific payment needs by Chalk Labs to make such updates during June.

h) Other items

NANP-NRC interactions – Hess, Lindemann, Cromwell, Lewis, and Kirk Baer provided an update to the committee that they met with Robin Schoen (Director; Board on Agriculture and Natural Resources; The National Academies of Sciences, Engineering, and Medicine) and a staff IT programmer to discuss the potential of making National Research Council models usable for a variety of communities. Both entities desire to maximize stakeholder value but must work within whatever legal and operational boundaries exist for the respective groups. It was noted that NASEM is interested in the NANP developing a common platform within which all of the NRC models could integrate and utilize a common feed ingredient database. It was noted that



NANP has the expertise to develop this platform and that the NAS could possibly host the platform along with the current NRC species models. Further discussion involved issues about access to the codes for the individual models to the Modeling Committee for its manipulation for research and/or educational purposes. Hess noted that the exact value of such a project should be documented by NANP, including cost/benefits as well as time savings to the research community. Currently NASEM is discussing issues and will contact the NANP with what their administrative directors see as the next step. Should the project with NAS be accepted, progress within 6 months should be made so that the next poultry NRC could use the new platform.

Possible summit - Beitz provided a verbal update to the committee regarding a concept of holding a follow-up summit titled "Protein foods on the 2050 plate." The summit could draw awareness by the animal nutrition community. Hess underscored the value of ensuring that summits highlight the NANP mission. Odle shared that meetings such as the JAM could be good venues for such a summit.

Closing comments - Lindemann welcomed administrative advisor feedback. Hess provided feedback regarding the progress made at the meeting, the cross-species representation and the positive trajectory for midterm review, while underscoring the need for highlighting the economic, societal, and/or environmental value of the Committee's activities so the impacts are clear. Hess also reported that annual accomplishment reports are available within the NIMSS website and that experiment station directors have hired an impact writer to develop impact statement based on projects that have been completed.

## 5. Adjourn

The chair adjourned the committee meeting at 12 PM Eastern time on April 14.

## OUTSTANDING ACTION AND INFORMATIONAL ITEMS

- **Lindemann** tasked to Feed Composition/ChalkLabs about possible modification of the swine database so that values are expressed on an as-fed basis as well as a dry matter basis to correspond with the beef and dairy databases.
- **Lindemann** will follow up on requesting a timeline for getting the Search function working properly on the NANP website.
- **Lindemann** will follow up with Miller regarding a press release announcing instructions on how to download feed ingredient information once the beef ingredient dataset is visible on the website.
- Kirk Baer provided information regarding the previous plan to announce the Forum as a valuable place for users with questions and discussion topics regarding reports, and asked whether the Forum is monitored, and by whom? **Cromwell** will check with ChalkLabs related to the possibility of automated responses to commenters. Lewis shared that this Forum fills a void that exists when committees are sunset after publications are disseminated. The group discussed

that the spirit of the Forum is for having discussions, and contemplated providing more updates on the Forum. Additionally, metrics related to NRC publications could be posted on the Forum.

- Kirk Baer provided a verbal update regarding appropriate acknowledgement statement regarding authorship. It does appear on the Tran et al. abstract being presented at JAM.
- The committee discussed the value of creating a timeline of items to complete regarding the cross-species platform.
- The committee received a verbal update from Beitz, who reported that some of the booklets have been distributed.
- The committee received a verbal update from Cromwell, who conveyed that the translations of booklets were completed but the status of posting them is unknown. Versions can be posted by staff. **Cromwell** will inquire with Robin White.
- **Cromwell** will inquire with Robin White regarding a draft communication plan for the Coordinating Committee.
- **Cromwell** will seek more information regarding the Calendar feature on the NANP website.
- The “Action Items” from the September 2015 meeting were received as verbal updates by the committee:
  - Cromwell completed the posting of NRSP9 on NIMSS.
  - Cromwell procured the website code from ChalkLabs.
  - Robin White and Kasey Klein created copies of the 12-page and 1-page documents.
  - Cromwell and Kirk Baer procured the Scopus information package from Elsevier to populate the Global Animal Nutrition Expert Network.

#### **NEW ACTION ITEMS**

- **Gatlin** will correspond with Watts to gauge interest in NANP assistance with zebrafish nutritional questions.
- **Hess** and **Kirk Baer** will identify a list of recipients for the “Animal Nutrition Research Priorities for a Healthy Society” publications. **Lindemann** and **Beitz** will coordinate preparation of a cover letter, and **Beitz** will work with **White-Shim** to mail out the copies as applicable.
- **Lindemann** will collect input about specific needs for the website to be completed by July 1. **Cromwell** will seek specific payment needs by Chalk Labs to make such updates during June.
- JAM booth – **Cromwell** will follow up on status of pens and flash drives. **Lindemann** will seek committee signup for the period of 0800-1700 each day, and **White-Shim** will send out the signup sheet to ask for volunteers to operate the booth.
- **White** will send **Cromwell** the password for the calendar and various publications/brochures.

**Minutes**  
**National Animal Nutrition Program--NRSP-9**  
**Meeting of the Coordinating Committee**  
**Conference Call**  
**May 19, 2016**

**Members present:** Merlin Lindemann (Chair), Gary Cromwell (Past Chair), Don Beitz, Ryan Dilger, Mike Galyeon, Delbert Gatlin, Heidi Rossow, Carey Williams

**Members absent:** Todd Applegate, Joel Caton, Nancy Irlbeck, Jack Odle

**Administrative Advisors present:** None

**National Academies/NRC present:** Austin Lewis

**USDA/NIFA present:** Charlotte Kirk Baer

1. **Call to Order:** The meeting was called to order at 2:05 pm EDT by Lindemann. Roll call was taken, and a quorum was present. The committee received the agenda for the meeting.
2. **Opening comments from Administrative Advisors:** None were available
3. **Minutes of the April 13-14, 2016 meeting:** With regard to the sentence of "...the group achieved consensus to ask Caton to seek a 1-page review opportunity with the Journal of Animal Science related..." (line 1, page 2), the committee approved the removal of "1-page" from this sentence. Then, the committee approved the modified minutes of the previous meeting.
4. **Enroll at NIMSS site ([www.nimss.org](http://www.nimss.org)):** Every committee member is enrolled on the NIMSS website via Appendix E except for one individual who will be encouraged to complete the task.
5. **Collaboration with NRC:** Lewis stated that no new information on status of the Poultry publication or on the common platform for the Model Committee is available from Schoen at this time.
6. **Responses (in bold) to Action Items of April 2016 minutes:**
  - **Lindemann** tasked to Feed Composition/ChalkLabs about possible modification of the swine database so that values are expressed on an as-fed basis as well as a dry matter basis to correspond with the beef and dairy databases. **Not done yet because of other priorities for ChalkLabs.**
  - **Lindemann** will follow up on requesting a timeline for getting the Search function working properly on the NANP website. **Not done yet because of other priorities for ChalkLabs.**

- **Lindemann** will follow up with Miller regarding a press release announcing instructions on how to download feed ingredient information once the beef ingredient dataset is visible on the website. **Lindemann will follow up on this after the 2016 JAM meetings.**
- Kirk Baer provided information regarding the previous plan to announce the Forum as a valuable place for users with questions and discussion topics regarding reports, and asked whether the Forum is monitored, and by whom? **Cromwell** will check with ChalkLabs related to the possibility of automated responses to commenters. Lewis shared that this Forum fills a void that exists when committees are sunset after publications are disseminated. The group discussed that the spirit of the Forum is for having discussions, and contemplated providing more updates on the Forum. Additionally, metrics related to NRC publications could be posted on the Forum. **Lindemann will communicate with ChalkLabs about the automatic response function. One post is available for the Swine NRC and none yet for the Beef NRC. Committee raised the issue of who will provide the response to questions/concerns? Committee needs to develop an arrangement for responding. Post-doctorates? The issue is put on hold for now.**
- The committee received a verbal update from Cromwell, who conveyed that the translations of booklets were completed but the status of posting them is unknown. Versions can be posted by staff. **Cromwell** will inquire with Robin White. **Spanish and Korean versions of the Summit booklets are with former post-doctorate Robin White. Cromwell has the Chinese and Portuguese. All four translations will be placed on the website.**
- **Gatlin** will correspond with Watts to gauge interest in NANP assistance with zebrafish nutritional questions. **Gatlin has communicated with Watts and will continue discussion of a potential document on proper diet formulations for zebrafish with Watts and his American Society of Nutrition discussion group.**
- **Hess** and **Kirk Baer** will identify a list of recipients for the “Animal Nutrition Research Priorities for a Healthy Society” publications. **Lindemann** and **Beitz** will coordinate preparation of a cover letter, and **Beitz** will work with **White-Shim** to mail out the copies as applicable. **Beitz has mailing addresses for speakers at the 2015 Summit, will work with Kasey Klein to get list of attendees of the Summit, and has a list of experiment station addresses (76) for mailing booklets and one-page document. Kirk Baer will assist with other USDA personnel who have not yet received the documents. Beitz will work with animal commodity group leaders. White-Shim will provide mailing assistance.**
- **Lindemann** will collect input about specific needs for the website to be completed by July 1. **Cromwell** will seek specific payment needs by Chalk Labs to make such updates during June. **Lindemann will work with ChalkLabs on items that will be prioritized. Arrangements have been made to have ChalkLabs provide invoices for payment for projects completed rather than working through a contract.**

- JAM booth – **Cromwell** will follow up on status of pens and flash drives. **Lindemann** will seek committee signup for the period of 0800-1700 each day, and **White-Shim** will send out the signup sheet to ask for volunteers to operate the booth. **Pens will be distributed at the 2016 JAM but not flash drives. White-Shim will work with committee to host the booth during the JAM.**
7. **Report on Expert Network changes:** No changes were suggested at this time except some committee members noted mistakes and incomplete listing of publications for the 1995-2015 period. Each person was encouraged to look at their individual sites and send any suggestions to Kirk Baer and/or Odle.
  8. **ChalkLabs pre-JAM changes to website:** These nine items in 'rank order' are suggested changes to be communicated to ChalkLabs.
    - a. Upload the new Beef NRC model and a link to the NAS location for purchase of the new document.
    - b. Adjust the committee structures to become current.
    - c. Add new species such as Equine, Fish and Shrimp, Small Ruminant as pictures, models and other information
    - d. Remove "Get Involved" Tab.
    - e. Under NRC models on the left margin, place the equine ([nrc88.nas.edu/nrh/](http://nrc88.nas.edu/nrh/)), small ruminant, and fish and shrimp NRC weblinks to the working documents and/or website to be complete with our species connections.
    - f. Place summit materials in all translated languages on the website.
    - g. Add global network link ([gann-nanp.org](http://gann-nanp.org)) if updated and ready to go.
    - h. Delete "search" tab and place magnifying glass icon for search at top of master page.
  9. **Update from the Feed Composition Committee:** Dilger stated that the beef data base is finalized. Committee is working with new data from Evonik. Also additional feed descriptions of feeds and assays used for composition data are being added to the database. Committee is focusing also on aligning names of feeds for consistency for all species.
  10. **Update from the Modeling Committee:** Rossow stated that the Modeling Committee will arrange a breakfast meeting during the 2016 JAM for planning a face-to-face meeting in probably October. Committee discussed the position description that has been developed by Hanigan, Lindemann, and the Modeling Committee. By consensus, the statement of 20% fringe was deleted from the description. Committee approved a salary range of \$42,000 to \$45,000. A closing date of July 15 or until a suitable candidate is found was approved by consensus. Committee approved the submission procedure that applications should be submitted to Lindemann.

11. **NRSP-9 Impact Statement:** Committee received a draft of the document from Hess that was prepared by an editor. Committee was encouraged to send any suggestions for change on the document to Lindemann by May 24, 2016 who would collate and forward to Hess.
12. **Next Conference Call:** Committee agreed that the next conference call will be held on June 16, 2016 at 2 pm EDT. The July meeting is problematic because of overlap with 2016 JAM. Decision on the July meeting will be made at June meeting.
13. **Adjournment:** Meeting was adjourned at 2:24 pm.

**Action Items developed at the meeting:**

1. **Lewis** will report on information from Schoen on Poultry publication and common platform at next meeting.
2. **Lindemann** will update the committee on communications with ChalkLabs on updating of the website before 2016 JAM.
3. **Beitz** will report on progress with mailing documents of 2015 Summit to selected persons.
4. Committee will continue discussion of responding to questions on the Forum of website.
5. **Gatlin** will provide updates on zebrafish diet formulation project.
6. Hosts for the NANP booth at 2016 JAM will be developed with assistance from White-Shim.
7. **Lindemann** will send ranked priority changes for website to ChalkLabs.
8. **Lindemann** will report on applications for the Modeling post-doctorate position.

**Minutes**  
**National Animal Nutrition Program – NRSP-9**  
**Conference Call – Coordinating Committee**  
**June 16, 2016**

Members Present: Merlin Lindemann (Chair), Gary Cromwell (Past Chair), Don Beitz, Joel Caton, Ryan Dilger, Mike Galyean, Nancy Irlbeck, Heidi Rossow, Carey Williams

Members Absent: Todd Applegate, Delbert Gatlin, Jack Odle

Administrative Advisors Present: Lesley Oliver

National Academies/NRC Present: Austin Lewis

Administrative Support Present: Lynne White-Shim

**1. Call to order**

The meeting of the Coordinating Committee (CC) was called to order at 2:00 PM EDT by Lindemann. Roll call was taken, and a quorum was present. The committee received the agenda as information.

**2. Opening comments from Administrative Advisors**

The CC received a verbal update from Oliver regarding an impact statement, NIFA budget activities, and fund splits among universities (currently University of Kentucky, University of Nebraska, and Virginia Tech) on the yearly distribution of funds.

**3. Minutes of the May 19, 2016 meeting**

Following a minor correction, the CC approved a motion to accept the minutes of its May 19, 2016 meeting.

**4. Previous, ongoing, or old business items**

**a. Enroll at NIMSS site ([www.nimss.org](http://www.nimss.org) )**

Lindemann gave an update about the enrollment status. All CC members are enrolled but some members of other committees remain to be added.

**b. Collaboration with NRC**

Lewis reported that NRC poultry revision funding was being procured from ARS and others, targeting an additional \$95,000 to meet the total budget. The next NRC poultry revision committee meeting will be held once funding is committed. The poultry committee is starting to be formed. At a soybean group (United Soybean Board) meeting held in April, discussion occurred on potentially including industry nutritionists on the committee; some previous revision committees did have industry representation.

Regarding the common programming platform, Lewis reported continued progress. The committee also learned from Lewis that the Nutrient Requirements of Beef Cattle, 8th edition, has been published. Caton reported there will be a webinar series sponsored by ASAS, and a symposium at JAM.

**c. Action item review and update from the May 2016 minutes**

- Communications with ChalkLabs: Lindemann reported that on May 30 a list of things to change were provided to Chalk. Most of what was requested by NANP was tackled by Chalk. Additional NRC publications, including shrimp/fish and equine, are now included on the website.
- Mailing of documents from 2015 summit: Beitz reported development of a cover letter for speakers from the last summit and a separate cover letter for non-speakers. Lindemann or Cromwell will sign each. Distribution of these documents to be sent to external groups (i.e., APLU) will be coordinated with administrative advisors and Kirk Baer.
- Web forum questions/answers: Lindemann reported that many errors were found on the forum previously, but Chalk has reportedly corrected them. The CC discussed how to answer questions on the web forum post-publication of the NRC Beef standards. Discussion ensued about forum issues and any potentially needed changes related to the forum or to other aspects of the website. Suggestions included post-doc monitoring and triaging on forum posts, and use of an IT ticket system managed by post-docs as gatekeepers for website changes.
- Zebrafish diet updates: Lindemann reported for Gatlin an update relative to conversations related to the discussion at the Experimental Biology meetings regarding needs for zebrafish diets. Steven Watts shared with Odle that NANP information looks useful for lab animal work, and that there is interest in working together. There was consensus from the CC that Gatlin move forward with Steve Watts to determine if a committee with aquacultural specialists could be put together due to the need for specific formulation needs for aquatic species.
- NANP booth at the JAM meetings: Lindemann encouraged the committee to send times (on Wednesday, Thursday, and Friday, July 20-22) for overseeing the NANP booth at JAM. Available times for volunteering on Wednesday, Thursday, and Friday should be sent to White-Shim for dates when the booth will be available (Wed, Thurs, part of Fri). Beitz suggested everyone send availabilities to White-Shim who will combine them and send to the Chair.
- Modeling post-doc position was sent by Lindemann to Mark Hannigan who shared it with Virginia Tech colleagues. Funds are available each fiscal year among Nebraska, Kentucky, and Virginia Tech, such that even if a post-doc left before an entire year ended, funds would still remain. Therefore, it could be funded through VT without concern about loss of funds.



## **5. New business items or updates**

### **a. Web site updates and issues (<https://nanp-nrsp-9.org/>)**

Report on expert network changes – some of the GANN website issues are related to the data base received from Elsevier.

### **b. Update from Feed Composition committee**

Dilger reported that database logistics were discussed by feed composition committee. Unique identifications could be included for the database, but there was consensus across the committee to have a standardized amino acid list to be used across species. Min and max values were replaced with 10<sup>th</sup> and 90<sup>th</sup> percentiles. Committee also concluded values should be reported on 100% dry matter basis, while allowing users the capability to calculate a different moisture content level.

### **c. Update from the Modeling committee**

Rosow reported that the modeling committee will have a breakfast meeting at the JAM at 6:30 at the Radisson on July 20, should coordinating committee members wish to join. Thereafter, a modeling symposium will be held. Since the symposium will be held at JAM this year, the committee also wishes to hold a workshop associated with a discovery conference or a different conference. One question posed by the committee is whether the CC minutes could be circulated to the modeling and feed composition committees. Lindemann reported that Box.com could be a possibility for posting minutes, and Cromwell reported that collaborators from last year are listed on Box.com which can be updated to reflect this year's committees and interested individuals. Minutes could also be delivered by the committee chair to the two committees via email. Lindemann suggested that the committee contemplate the question and discuss at the next conference call. Lindemann will consult Kirk Baer regarding any requirements for public posting of NANP CC minutes.

### **d. Committee membership rotation – comments and/or concerns**

The committee received a verbal update from the chair that the item is being deferred to the next meeting given call time constraints. Lindemann reported that NANP coordinating committee membership rotations (three-year staggered terms with eligibility for reappointment) is important but we must also retain institutional knowledge. Cromwell had no further comments at this time.

### **e. Next monthly conference call**

Lindemann asked whether there needs to be a call in July. There was consensus to hold the next call on August 4 at 2-3 PM EDT.

### **f. Other items**

CC members are welcome to send comments about the Google analytic statistics for the website to Lindemann. Lindemann will send updates to the committee weekly.

## **6. Closing comments from Administrative Advisors**

No additional comments were given.

## 7. Adjourn

The chair adjourned the meeting at 3:11 PM Eastern Daylight Time.

### **Action Items developed at the meeting:**

1. **Lindemann** will discuss with Kirk Baer the required and/or possible distribution of minutes.
2. **Beitz** will coordinate mailing documents of 2015 Summit to selected persons.
3. **Gatlin** will discuss with Steve Watts whether there are (and to identify) aquaculture specialists that might be willing to serve on a committee relative to zebrafish diet formulation.
4. Volunteer hosts for the NANP booth at 2016 JAM will be sought and a table for booth attendance developed with assistance from White-Shim.

## Minutes

### National Animal Nutrition Program – NRSP-9 Conference Call – Coordinating Committee August 4, 2016

Members Present: Merlin Lindemann (Chair), Gary Cromwell (Past Chair), Todd Applegate, Don Beitz, Joel Caton, Mike Galyean, Delbert Gatlin, Nancy Irlbeck, Jack Odle, Heidi Rossow

Members Absent: Ryan Dilger, Carey Williams

Administrative Advisors Present: Lesley Oliver

USDA: Charlotte Kirk Baer

National Academies/NRC Present: Robin Schoen

Administrative Support Present: Lynne White-Shim

#### 1. Call to order

Cromwell called the meeting to order at 3:02 PM Eastern time.

#### 2. Opening comments from Administrative Advisors

No comments were given.

#### 3. Minutes of the June 16, 2016 meeting

Lindemann stated that the meeting minutes were distributed and asked for comments. The committee approved a motion (made by Beitz, seconded by Odle) to accept the June 16 minutes as distributed.

#### 4. Previous, ongoing, or old business items

##### a. Status of enrollment at NIMSS site ([www.nimss.org](http://www.nimss.org))

It was reported that all Coordinating Committee members are enrolled. Some members of the other committees remain to be enrolled. Committee members from industry, Canada, as well as non-land grant universities will require special effort to enroll.

##### b. Collaboration with NRC/NASEM

Schoen provided a verbal update related to the NASEM, including the release of the new beef NRC nutrient requirement standards in May 2016, the economic status of the NASEM's funds related to the production of the beef publication, and progress related to the dairy standards which is underway targeted for publication in 2018. Schoen also shared that a poultry nutrient requirement revision committee is being assembled and

will be announced once full funding is procured. Schoen discussed the possibility of software that could integrate various models for both teaching and future committees' needs. The NASEM is exploring the potential for the models to be unlocked for researchers to modify them for scientific purposes within the public domain, so long as the gold standard models are maintained exclusively by NASEM, while simultaneously allowing for modification of the models on an individual basis through NANP. Agreements cannot currently be signed with NANP due to NANP not being a legal entity so additional dialog about how to proceed is encouraged. Schoen shared that NASEM is considering whether to hire an animal nutritionist to serve in a role similar to how Dr. Lewis served.

**c. Action item review and update from the June 2016 minutes**

1. Lindemann relayed that the minutes from 2015 were posted in box.com, and he will post the minutes for 2016.
2. Beitz updated the committee that he will work to prepare mailings this month.
3. Gatlin provided an update related to his interactions with Lindemann about the zebrafish questions. Gatlin plans to conduct outreach to Steve Watt colleagues and will report back at the next conference call.
4. Cromwell reported that the NANP booth at the JAM was well received by JAM attendees.

**5. New business items or updates**

**a. Website updates and issues (<https://nanp-nrsp.org>)**

Cromwell conveyed the need for dialog related to the global network. Chalk Labs had expressed concerns about the data provided in the database from Elsevier. Kirk Baer provided an update regarding interaction with the contractor, specifically that “animal nutrition” and “human nutrition” were used as key phrases in the search strategy used to populate the global database. Kirk Baer suggested the possibility of reaching out to Elsevier to ask for more inclusive data to populate the network. The committee achieved consensus to seek better, inclusive, data with possible intermittent updates from Elsevier, working through Lindemann, Cromwell, Odle, and Kirk Baer.

**b. Update from Feed Composition committee**

Dilger provided a report to Lindemann. Cromwell provided a verbal update that the committee will have a meeting on August 18 in Omaha, Nebraska.

**c. Update from the Modeling committee**

Rosow provided a verbal update. The committee met at JAM. It is reviewing several papers, to include swine and dairy data, for uploading to the website. The committee seeks guidance from the Coordinating Committee regarding how to upload those documents specifically. The committee also seeks to have an in-person meeting, to be held in tandem with the Coordinating Committee in the spring of 2017. Cromwell conveyed that a previous cross-committee meeting occurred in Washington, D.C. for the

Summit, and that future dialog could be considered related to another cross-committee meeting.

**d. Promotional piece from Terri Baumann of the Agriculture is America team**

Kirk Baer shared that land grant universities have been working to promote agriculture, to include NANP and its efforts.

**e. Next monthly conference call**

The committee plans to hold its next call on September 15 at 2 PM Eastern time, unless otherwise determined by the committee.

**f. Other items**

No additional items were discussed.

**6. Closing comments from Administrative Advisors**

No comments were received.

**7. Adjourn**

Lindemann adjourned the call at 3:03 PM EDT.

**Action items developed at the meeting:**

1. **Beitz** and **Lindemann** to send mailings of brochures.
2. **Gatlin** to inquire further about specific zebrafish diet questions, needs of the ASN working group, and what specific assistance might be desired.
3. **Lindemann** and **Cromwell** will interact with Elsevier about GANN database, assistance by Odle and Kirk Baer.

## Minutes

National Animal Nutrition Program – NRSP-9

Conference Call – Coordinating Committee

September 15, 2016

Members Present: Merlin Lindemann (Chair), Gary Cromwell (Past Chair), Todd Applegate, Ryan Dilger, Mike Galyeen, Nancy Irlbeck, Jack Odle, Heidi Rossow, Carey Williams

Members Absent: Joel Caton, Delbert Gatlin

Administrative Advisors Present: Lesley Oliver

National Academies/NRC Present: Robin Schoen

### **1. Call to order**

The meeting of the Coordinating Committee was called to order at 2:02 PM Eastern by Lindemann. Roll call was taken, and a quorum was present. The committee received the agenda as information.

### **2. Opening comments from Administrative Advisors**

Oliver conveyed that the annual report will be submitted for this fiscal year.

### **3. Update from the USDA side – C. Kirk Baer (via Lindemann)**

The NANP program will be featured as an accomplishment within USDA NIFA's research program. The USDA's feature of NANP will illustrate what the program is and will highlight the NANP website. Lindemann shared that the committee should have received an invitation to the NIFA summit on October 10 in Chicago, where agricultural data and opportunities will be utilized to shape research priorities. John McNamara (Modeling committee) will be attending. Odle received the invitation on August 25 and will send to the entire committee.

### **4. Update from NRC/NASEM – R. Schoen**

Regarding the committee's work with NASEM to create two versions of the modeling programs (i.e., the original model and revised/updated models), Schoen indicated there are no hurdles for the committee to surmount related to general counsel's review of the model-sharing concept, and any disclaimer language that might be needed. Some details remain to be addressed. Schoen advised the website should be updated to reflect the name change from NRC and NASEM, as well as the removal of Dr. Lewis's name. Schoen shared an update related to the poultry nutrient requirements revision committee, specifically that the

sorghum growers have interest in updating values; Schoen cannot utilize currently in-hand resources until all funds are acquired for the committee's needs.

#### **5. Minutes of the August 4, 2016 meeting**

Lindemann conveyed that the minutes were sent for the committee's review and welcomed any corrections. The committee approved a motion (Cromwell, Irlbeck second) to accept the minutes as distributed.

#### **6. Previous, ongoing, or old business items**

a. Lindemann noted that Dr. Huyen Tran will soon be leaving her current role with NANP and shared that the feed composition committee wishes to hire a post-doctoral candidate, as does the modeling committee. Lindemann inquired about the committee's ability to assist in identifying post-docs.

b. Action item review and update (provided for review at the end of the August 2016 minutes)

Lindemann advised that he and Beitz are involved in mailing brochures to stakeholders. Lindemann advised that he spoke with a company related to zebra fish diets, who reiterated that not much information is available. Gatlin will continue to attempt to contact various groups to define the questions and needs that the zebra fish community has in view of pulling together a working group.

Lindemann also shared that he, Cromwell, Odle and Kirk Baer worked with Elsevier related to the GANN database; Elsevier's representatives conveyed they understand the database is not a good fit for the committee at this time and they are willing to work with the committee to rectify the database. Elsevier was planning to meet with representatives at the University of Kentucky, but the meeting was pushed back to the week of October 10. Kirk Baer may attend. Lindemann conveyed the helpfulness of the meeting, including that the Elsevier representatives carefully explained the online database search process. Cromwell also indicated that the Elsevier meeting was a helpful conversation; Elsevier conveyed disappointment in NANP not getting the product it sought and a willingness to correct the situation. Lindemann shared that the person who delivered the original search documents left the company, which may have triggered confusion due to the employee turnover. The Elsevier lead on this project will be physically present at the University of Kentucky at times, which should help promote continuity.

#### **7. New business items or updates**

a. Web site updates and issues (<https://nanp-nrsp.org>)

Lindemann shared that he has been sending Google analytics to the committee. The GANN website has fewer clicks by web users per the Google analytics but the changes by Elsevier in the database is anticipated to help drive more interest. Lindemann detects a strong desire by the modeling and feed ingredient committees to change web vendors so that the committees have increased capabilities to make changes to the website themselves. Applegate discussed previous conversations that an ad hoc committee had with Chalk Labs, who was conducting various activities for the committee; website maintenance seemed to be of less interest than the higher-level work they wished to do as a business. The committee felt a different vendor would be better utilized and underscored that activity on a website showcasing the feed database or other items would need to interact with each other. Dilger conveyed that at a Feed Composition Committee meeting on August 18, the committee thought that there was a need for Chalk Labs to be used from a data management perspective, while using a different vendor for web maintenance. Rossow agreed with Dilger, conveying some Modeling Committee frustration associated with continued website needs.

Following discussion, the Coordinating Committee elected Dilger to reinvigorate a website subcommittee. Rossow agreed to work in a website subcommittee with Dilger. Dilger indicated that the next vendor needs to set up a content management system that select volunteers can then utilize. Dilger conveyed it costs about \$15,000 to use an external vendor. There would not be annual costs associated with this process; in this case, Chalk Labs will still be a part of the process but will be behind the scenes. The new vendor would get the data from Chalk Labs behind the scenes; Dilger conveyed this is a common occurrence. Lindemann conveyed the need to identify a vendor name, task list, and other specifics. Lindemann tasked Rossow and Dilger to identify a specific plan for the Coordinating Committee to consider. Rossow and Dilger will investigate further the options while also appointing volunteers from their respective committees; Irlbeck volunteered to assist also.

- b. GANN status information  
Previously discussed.
- c. Update from Feed Composition committee – delayed.
- d. Update from the Modeling committee  
The committee will be meeting in person in St. Louis on October 23, 2016.
- e. Impact of federal compensation directives on PostDoc salaries



Oliver conveyed that recent interpretations of the Fair Labor Standards Act has impacted universities' categorization of employees as exempt and non-exempt. Most universities utilize post-doctoral candidates as exempt faculty or similar, and those positions are exempt from overtime. The federally mandated minimum for those positions will be approximately \$47,500. At the University of Kentucky, postdocs for less than 3 years that are currently exempt and making less than \$47,500 salary can be classified as hourly employees but recruiting for a position such as that would be difficult. Lindemann reiterated that for the post-docs that are needed for NANP, they will each need \$47,500 + \$9-16,000 in fringe benefits instead of the approximately \$42,000 currently being paid, so the budget will need to be adjusted accordingly. Lindemann conveyed that an electronic vote may be possible once the specific information related to salary and benefits are identified for a vote. Cromwell conveyed that the recruitment documents should be changed to reflect the \$47,500 salary.

f. Next monthly conference call – October 20

**8. Closing comments from Administrative Advisors – none.**

**9. The meeting was adjourned at 3:05 PM.**

**Action items developed at the meeting:**

1. **Beitz** and **Lindemann** to send mailings of brochures.
2. **Lindemann, Cromwell, Odle** and **Kirk Baer** work with Elsevier related to the GANN database.
3. **Gatlin** to inquire further about specific zebrafish diet questions, needs of the ASN working group, and what specific assistance might be desired.
4. **Dilger** and subcommittee to begin process of identifying new interaction model for the NANP website.