

Minutes of the Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – October 10, 2018 1:00PM EDT

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

Administrative Advisors: Lesley Oliver

USDA/NIFA: Charlotte Kirk Baer

National Academies/NRC: Robin Schoen

Chairman Lindemann called the meeting of the Coordinating Committee to order at 1:00 PM EDT.

1. Opening comments from Administrative Advisors – L. Oliver - We are in a new fiscal year and looking to get detail reports on expenses in another month or so. The directors met last week and the recommendation is to develop a plan for reduced or no off-the-top funding coming in the future. The program needs to start thinking about sustainability.
2. Opening comments from USDA/NIFA – C. Kirk Baer – They are expecting to receive all the proposals of expressions of interest to host the new NIFA location by October 15, 2018.
3. Update from NASEM – R. Schoen – They have just finished a meeting of the poultry revision committee and another one is planned next week. The dairy revision committee is reformatting the chapters and getting the revision ready for outside review. They do not have a date for the final meeting but it is under consideration between the two co-chairs.
4. Minutes of the September 12 meeting - Cromwell identified and advised Lindemann of a typographical error. Beitz moved and Dilger seconded to accept the minutes as corrected. Motion passed.
5. Previous, ongoing, or old business items
 - a. Web site (Surface 51) updates and issues (<https://animalnutrition.org/>): Dilger - Things have moved quickly since the Sept. 12th onsite feed composition subcommittee

meeting. Surface 51 has provided an update of the cost and timeline with a completion date of Oct. 29th. A cost estimate of \$7700 was provided to finalize the website. The Modeling committee project of repopulating the animal performance data on the website is moving along smoothly. They have made progress and both Post-Docs are really stepping up and this project should be finished by the end of the year.

New website project costs - Cromwell moved to pay \$7700 for the completion of the website, Irlbeck seconded. Motion approved to dispense funds.

- b. ChalkLabs modeling of data for the GANN website – update: There has been recent communication between Gavin LaRowe and Lindemann. The modeling is almost done, he stated it was a large data set and they have had good progress since they figured out the errors. It will take 3-4 days to run the data and 1-2 weeks to incorporate and upload the data on the website. They are actively working on it now and hopefully we will see something soon.
 - c. Summit 2019 – Beitz – Applegate, Gatlin and Beitz had a conference call to go over the structure and detail of the program. They have created a working document and are requesting further input and suggestions. The Summit will be April 10 in the large ballroom of the National Academy of Science, Engineering, and Medicine. The proposed title is “Producing Food with Animals: Sustainability, Efficiency, and Security in the U. S.” It was suggested that Lindemann opens the program with a welcome and recap of the 2015 summit and to have someone from the National Academies give their perspective on the past and future during the 100 Year Celebration. Chuck Rice was recommended and Schoen will discuss this with him. The Summit would end with a capstone summary of the day by a member of Coordinating Committee from the presentations and roundtable discussions given. The subcommittee will meet again within the next week to prioritize speaker topics and Beitz would like suggestions sent to him about any aspects of the program.
Invitations need to be sent out in enough time and Beitz will contact FASS to see what services can be provided to get this done.
6. Report from the Modeling committee – Rossow – They are working on preparing workshops for next summers meetings. There is an in person Chicago meeting Oct. 30th.
- a. ADSA 2019 activity and funding proposal – Modeling workshop will be June 23rd with an estimated cost of \$3576. There is a conference grant proposal that has been developed and submitted by Tim Hackmann to cover 3 years of the ADSA modeling efforts. This funding request is presented in case the proposal funds are not received.

- b. ASAS 2019 activity and funding proposal – July 8th - \$9300 – A conference proposal request to NIFA has not been submitted yet but it is being developed with the intent to submit. They are asking the committee to provide financial support if the NIFA grant funds are not received.

Conference support motion: To provide financial support for both ADSA and ASAS activities if funding is not secured from other means. Beitz moved, and Irlbeck seconded. Rossow will inform the committee on the approval.

- c. PSA 2019 thoughts – There is intent to start Modeling workshops at the PSA meetings. The planned initiation format will be similar to that of the Animal Science symposium this past July in Vancouver. The Coordinating Committee may get a potential budget request for this in the future; therefore, the committee should be aware.
7. Report from the Feed Composition committee – Dilger – During the Omaha onsite meeting they discussed all details needed to finish the database and how to become economically sustainable and the need to develop strategies for marketing. Dilger is encouraging the Coordinating Committee to think about a defined marketing plan for both the modeling and feed composition database activities.
8. New business items or updates – none.
9. Closing comments from Administrative Advisors – Oliver – Apologized for the delayed response and progress on the licensing agreement. There have been communications with regard to the verbiage on the licensing agreement for the MSI and on how this would work between the National Academies, UK, and our committee.
10. The meeting was adjourned at 2:09 PM EDT.

Minutes of the Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – November 14, 2018, 1:00 PM EST

Members present: Merlin Lindemann (Chair), Don Beitz, Gary Cromwell, Heidi Rossow, Nancy Irlbeck, , Joel Caton, Todd Applegate, Jack Odle

Administrative Advisors: Lesley Oliver

USDA/NIFA: Not present

National Academies/NRC: Robin Schoen

Chairman Lindemann called the meeting of the Coordinating Committee to order at 1:00 PM EDT.

1. Opening comments from Administrative Advisors – L. Oliver – Reminder that individuals from all three NANP committees are to have individual reports in the system for NRSP9 multistate project. Lindemann has some activity reports compiled and will distribute them. A location selection for the possible relocation of USDA/NIFA has not been made yet. NIFA employees will be told in January where the selection is if plans to move are finalized.
2. Update from NASEM – R. Schoen – The Summit program looks good and she will be happy to contact Dale Bauman about being the “100 years of the National Academies” summary speaker if needed.
3. Minutes of the Oct. 12 meeting - Cromwell moved to approve the minutes as distributed. Beitz seconded and the motion passed.
4. Previous, ongoing, or old business items
 - a. Website (Surface 51) updates and issues (<https://animalnutrition.org/>): Both updating projects from the committees are nearing the final stages. The postdocs are finalizing the data uploads with a go-live date in November.
 - b. ChalkLabs modeling of data for the GANN website – Lindemann had a call with Gavin LaRowe recently. The base data is loaded with 400k citations and the number of authors in the millions. There are little changes needed on the website to show the manner in

which the citations occur. The changes are to be in place by Thanksgiving. He apologized for the delay and said that there would be no additional charges.

- c. Summit 2019 –
 1. Committee is working on the mailing list and will send a save the date notice soon.
 2. Agreement on honorarium - Beitz moved, Irlbeck seconded. The motion was approved for a \$1500 speaker honorarium.
 3. Each topic and proposed speaker and discussed and ranked. The committee will proceed with contacting the top choice speakers.
 4. Once we have confirmed speakers we will talk through a tentative budget during the December meeting.
5. Report from the Modeling committee – Rossow – ASAS 2019 activity and funding proposal – A revised Techniques Library proposal from the Modeling Committee that was a scaled down version of earlier techniques library proposals was reviewed and discussed. The Modeling committee requested \$8700 to begin the library process. The motion for funding from the committee was approved by the Coordinating Committee. Rossow will inform the Modeling Committee of the approval.
6. New business items or updates –
 - a. Request for open access funding for the recently accepted JOVE paper – The Coordinating Committee previously approved \$3,000 on February 21 for open access publication of the JOVE article. At the time, there was some lack of clarity on the request if the amount was \$3,000 or \$4,200. The publication has been accepted and clarification was received that the Modeling committee requested \$3,000 for the print publication and \$1,200 for the accompanying video. A motion to approve the additional \$1,200 was made by Lindemann, seconded by Rossow, and passed without dissent. Rossow will communicate the vote to the Modeling committee.
7. Closing comments from Administrative Advisors – Oliver – None
8. The meeting was adjourned at 2:00 PM EST.

Minutes of the Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – December 12, 2018, 1:00 PM EST

Members present: Merlin Lindemann (Chair), Don Beitz, Gary Cromwell, Del Gatlin, Joel Caton, Ryan Dilger, Heidi Rossow, Jack Odle, Nancy Irlbeck

Administrative Advisors: Lesley Oliver, Rick Rhodes

USDA/NIFA: Not present

National Academies/NRC: Not Present

Chairman Lindemann called the meeting of the Coordinating Committee to order at 1:00 PM EDT.

1. Opening comments from Administrative Advisors –Rhodes stated that NRSP-9 is doing well thus far and encouraged the group to keep up the good work.
2. Opening comments from USDA/NIFA – Charlotte Kirk Baer was not available to be on the call. Lindemann noted that the proposed changes at the NIFA offices, including moving the offices out of the DC area, are already causing disruption as some employees leave current positions for alternate options. This is affecting Kirk Baer’s workload significantly, and thus her inability to be on today’s call was related to other unexpected responsibilities. Lindemann encouraged the group to contact her via email if needed.
3. Update from NRC/NASEM – R. Schoen – Schoen was not available to be on the call. Dilger noted that the poultry nutrition requirements revision committee is moving forward well, particularly with the modeling aspect. Lindemann noted that a list of potential outside reviewers had been provided to Schoen by the Coordinating Committee for the final review of the dairy revision.
4. Minutes of the November 14, 2018 meeting - **Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion, and the motion passed.**
5. Previous, ongoing, or old business items:

- a. Website (Surface 51) updates and issues (<https://animalnutrition.org/>) - The website is moving forward and the group was referred to a staging website to see the progress. The goal is to have the website databases completely up and running before Christmas.
 - b. ChalkLabs modeling of data from Elsevier for the GANN website – Lindemann had nothing new to report in this area.
 - c. Summit 2019 – Review of the most recent program – Beitz led a discussion on the progress of planning Summit 2019. An overall title, objective and outcome have been established. Beitz noted that any comments on those should be brought forward soon.
 1. Speakers confirmed/open: Beitz reviewed the list of speakers and gave updates on who is committed and who is still pending. Discussion of the lunch hour program took place and Irlbeck suggested “table topics” as a way to facilitate discussions over the lunch break.
 2. Publication options: The group soliciting speakers has not asked for manuscripts from presenters. Lindemann stated that a printed book was prepared for the last Summit and that he would like to repeat that again for 2019. The idea of an open access article derived from presentations was discussed and the group agreed that it is a very good idea.
 3. Marketing and invitations: Beitz is updating the mailing list. He requests that each member of the committee add at least 10 people to receive a notice about the meeting, and also that the group review the current list and update any changes in contact names, or addresses as well. Beitz confirmed that there would be a pre- and post-Summit meeting for the Coordinating Committee to facilitate last minute items before the Summit and evaluation of the results and perceived impact after the Summit.
 4. Estimated cost and budget limitations: Beitz noted that the honorarium budget is \$15,000, and approximately \$15,000 in travel expenses for speakers. Also in the budget should be hotel costs including room rental and food and beverage. For the 2015 Summit, the budget was \$100,000 and just over \$60,000 was actually spent. Beitz noted that it might be worth considering a room block for attendees. Beitz and Lindemann will discuss the need and ask FASS for help with establishing the block.
6. Report from the Modeling committee – Rossow – Rossow reported that the committee is moving forward well.
 7. Report from the Feed Composition Committee – Dilger – Dilger reported that work on swine databases is moving forward first.

8. New business items or updates –
 - a. Request from Peter Ferket for modeling assistance – Lindemann reported that Ferket has data related to amino acid requirements for broilers that needs to be uploaded to the NANP website. There is currently not a lot of non-ruminant information there. Ferket has asked for \$16,000 to help defray labor costs to facilitate finishing the database/modeling work for other poultry (i.e., layers and turkeys). Discussion ensued on the potential benefits and concerns with supporting this endeavor [[general discussion on the total NANP financial situation was had, and a comment was made that perhaps sponsorship could be used to offset some of the Summit 2019 expense]]. Lindemann confirmed there was still a quorum on the call.
Beitz moved to support the request from Ferket for \$16,000.00. Irlbeck seconded the motion, and the motion passed.
9. Closing comments from Administrative Advisors –There were no comments.
10. The meeting was adjourned at 2:16 PM EST.

Minutes of the Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – January 10, 2019 2:00 PM EST

Members present: Merlin Lindemann (Chair), Jack Odle, Don Beitz, Todd Applegate, Gary Cromwell, Ryan Dilger, Heidi Rossow, Nancy Irlbeck, Delbert Gatlin, Carey Williams

Administrative Advisors: Lesley Oliver

USDA/NIFA: Not present

National Academies/NRC: Robin Schoen

Chairman Lindemann called the meeting of the Coordinating Committee to order at 2:00 PM EDT.

1. Opening comments from Administrative Advisors – Oliver had nothing new to report.
2. Opening comments from USDA/NIFA – Charlotte Kirk Bear – Kirk Bear was not on the call.
3. Update from NRC/NASEM – R. Schoen – Schoen reported that there are 2-3 chapters of the dairy portion left to format, but that the process is moving along quickly. Schoen feels like it will be ready for review by mid-2019. Poultry is moving along as well.
4. Minutes of the December 12, 2019 meeting - **Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion, and the motion passed.**
5. Previous, ongoing, or old business items:
 - a. Website (Surface 51) updates and issues (<https://animalnutrition.org/>) – Dilger reported that they are still working on styling and some other minor pieces of the website. Dilger noted that the relationship with Surface 51 is working well.
 - b. ChalkLabs modeling of data from Elsevier for the GANN website – Lindemann had no new updates to report during the call, but anticipates an update later in the week.
 - c. Summit 2019 – Review of the most recent program – Beitz reviewed the current program that was distributed to the group prior to the call. Sir Charles Godfray has been asked to be the opening speaker. He is considering the invitation and Beitz should know soon.

1. Speakers confirmed/open: The speaker line up is finalized, with the exception of the pending response from Godfray. Bauman was unable to accept an invitation; Cromwell will speak instead.
2. Publication options: The committee is thinking of a small booklet and a paper in a refereed journal. Odle is the editor of *Current Developments in Nutrition*. It is an open access journal. Odle noted that the primary focus of the journal has been human nutrition, but is certainly open to animal nutrition. There was discussion on what type of journal should be considered. There was agreement that it must be an open access publication.
3. Marketing and invitations: Beitz reported that he will work with Tharp at FASS to prepare a "Save the Date" and mailing list. Beitz asked the group about a website for the Summit. There was agreement that a website should be developed. The group agreed to use FASS to develop a website. Dilger noted that we can re-direct the web page from the NANP website (animalnutrition.org) to a FASS developed page.

ACTION: Tharp will work with Beitz to develop a website.

Beitz noted that a hotel block will be needed. Schoen will provide some input to Tharp on hotels nearby with reasonable prices. The block should be around 30 rooms.

ACTION: Tharp will work with Beitz and Lindemann to book a hotel for committee members' hotel rooms.

There was discussion on the potential need for a pre-conference meeting space.

6. Report from the Modeling committee – Rossow – Rossow reported that the committee activities are moving along well.
7. Report from the Feed Composition Committee – Dilger – Dilger reported that swine and poultry is being wrapped up now.
8. New business items or updates – There were none.
9. Closing comments from Administrative Advisors – Oliver – Oliver encouraged the group to keep working on Summit items as it will be here quickly.
10. The meeting was adjourned at 2:55 PM EST.

Minutes of the Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – February 7, 2019 2:00 PM EST

Members present: Merlin Lindemann (Chair), Don Beitz, Todd Applegate, Ryan Dilger, Heidi Rossow, Nancy Irlbeck, Delbert Gatlin, Carey Williams, Joel Caton

Administrative Advisors: Richard Rhodes

USDA/NIFA: Not present

National Academies/NRC: Not present

Chairman Lindemann called the meeting of the Coordinating Committee to order at 2:01 PM EST.

1. Opening comments from Administrative Advisors – Rhodes was on the call and reported that the future in DC is uncertain. NIFA is back in the office but currently swamped trying to catch up from the shutdown. Rhodes noted that the NRSP-9 group is doing a great job.
2. Minutes of the January 9, 2019 meeting - **Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion, and the motion passed.**
3. Previous, ongoing, or old business items:
 - a. Website (Surface 51) updates and issues (<https://animalnutrition.org/>) – Dilger reported that he will be at IPPE next week and will be presenting a poster representing the Feed Composition Database. He has a guarantee that the feed composition database website will be live on Monday, February 11, 2019. He reports that the modeling database is not far behind.
 - b. ChalkLabs modeling of data from Elsevier for the GANN website – Lindemann reported that he is communicating with ChalkLabs and they have a clear goal of solving the multiple citations issue very soon. Lindemann would like Odle and Kirk Baer to be on the next call with ChalkLabs if possible.
 - c. Summit 2019 – Review of status and needed actions – Beitz referred the group to the schedule of speakers that was distributed to the group today. Beitz asked for a volunteer to speak for the “Highlights of 2019 Summit” at the end of the day. Irlbeck offered to help summarize, but prefers not to be the spokesperson. Beitz suggested

Jack Odle. Applegate suggested the speakers provide their slides in advance to help in the preparation of the summary.

VanArsdell (NC-FAR) suggested briefings on the Hill for the house and senate ag committees just after Summit to raise awareness of what was discussed. The group agrees that this is a good approach. Lindemann noted that a former student of Cromwell's was recently elected to the house, so may be able to help with this effort. ASAS hosts a "Snack and Fact" animal ag message day on the Hill, and it was mentioned as a comparable type of event. Discussion was had that the day should be scheduled after the event, once publications are ready.

1. Speakers confirmed – Beitz confirmed that the speaker list is final, but that titles need to be confirmed. Discussion was had on timing of presentations for each speaker.
2. Publication options – establish sub-committee: Lindemann called for volunteers on the call to help with the publication component. Irlbeck volunteered to help, and Odle was suggested as an option as well. John McNamara has offered to help with the publication also.
3. Marketing and invitations – target audience, should we go beyond the mailing list?: Beitz reported that NC-FAR will publicize the conference through their mailing list. All university ag department deans will receive a notice as well.

Tharp reported that a hotel contract has been secured for committee members and speakers. Rates are at \$236, with a short metro ride or taxi cabs. Lindemann would like the committee members to pair up with speakers to help them feel comfortable. Speakers will need to send their flight arrangements to FASS. A dinner will likely be planned for speakers and committee members. Reagan Airport will be the closest.

ACTION ITEM: Beitz will handle all speaker communications. FASS will handle the air travel and hotel arrangements for speakers, and will create a web form for registration.

4. Report from the Modeling committee – Rossow – Rossow reported that they are continuing work on the modeling committee endeavors.
5. Report from the Feed Composition Committee – Dilger – The committee is finishing their data evaluation and is now transitioning into a request for two data sets that will be used to develop programs to automatically categorize and sort feedstuff data.

MOTION: Dilger presented the motion from the Feed Composition Committee to provide the data to the computer science department at UNL for student training templates related to data categorization. The motion passed.

6. New business items or updates
 - a. Newsletter: Lindemann referred the group to a draft newsletter template that was provided for review. There was general consensus that the idea of newsletter is a good idea. It could drive traffic to the website, and target students. Irlbeck noted that there must be a project champion, and that the newsletter must be dynamic to be successful, and suggested starting with bi-annual publication with the ability to increase frequency if demand is there.
7. Closing comments from Administrative Advisors – Rhodes noted that the direction NRSP is heading is great, and that Summit is enormously valuable.
8. The meeting was adjourned at 2:59 PM EST.

Minutes of the Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – March 7, 2019 2:00 PM EST

Members present: Merlin Lindemann (Chair), Jack Odle, Don Beitz, Todd Applegate, Gary Cromwell, Ryan Dilger, Nancy Irlbeck, Delbert Gatlin, Carey Williams, Joel Caton

Administrative Advisors: Bret Hess

USDA/NIFA: Not present

National Academies/NRC: Not present

1. Chairman Lindemann called the meeting of the Coordinating Committee to order at 2:01 PM EDT.
2. Opening comments from Administrative Advisors – Hess noted that his last day with the University of Wyoming is approaching. However, with the transition he will still be able to continue as an Administrative Advisor.
Lindemann read a note from Rhodes about his absence for the call, also noting that he will not be at the Summit, and that he thanks the group for all they are doing with Summit and other projects.
3. Opening comments from USDA/NIFA – C. Kirk Baer – Kirk Baer was not on the call for a report. Lindemann read a note to the group from Kirk Baer.
4. Update from NRC/NASEM – R. Schoen – Schoen was not on the call. Lindemann reported that the Dairy revision committee is scheduling their last meeting in early April. Poultry has a meeting in late April.
5. Minutes of the February 7, 2019 meeting - **Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion, and the motion passed.**
6. Previous, ongoing, or old business items:
 - a. Website (Surface 51) updates and issues (<https://animalnutrition.org/>) – Dilger reported that the production side of the feed database has launched. Modelling will launch soon.
 - b. ChalkLabs modeling of data from Elsevier for the GANN website – Lindemann reported that significant progress has been made in the last month. Lindemann has tested the system by searching for his own publications. He reported that the search is slow, and

that the slowness is being addressed. Lindemann noted that with the Summit approaching, the GANN website is not the focus of the group currently. Odle commented that in the future, if it turns out to be functional, Elsevier should be able to confirm whether or not an update to include data since the current data end date of 2015 will be feasible.

Lindemann pointed out that if the group decides the ability to include cite-forward and cite-back citations is desired that a new vendor will be needed.

- c. Summit 2019 – Review of status and needed actions –
 - i. Speakers and titles – Beitz noted that the speaker lineup is confirmed and that registration is open and working.
 - ii. Miscellaneous items – Beitz will be soliciting speaker biographical information to introduce speakers. Beitz will chair the morning session, and is looking for volunteers to chair the afternoon session.
 - iii. Publication options – Lindemann would like to create a sub-committee for creating and managing the publications that will come out of Summit 2019. Decisions on what type of publication will be created, and how it will be formatted and disseminated are still being discussed. McNamara and Irlbeck have volunteered to participate on the sub-committee. Lindemann suggested Robin White help with the publication component as well. Beitz recommended that the presentations be recorded.

ACTION: Beitz will work with Schoen to establish a method for recording the talks.

Discussion was had about the potential of putting video of presentations online and on the website. It was noted that speaker releases must be obtained before recording presentations.
 - iv. Marketing and invitations – target audience, should we go beyond the mailing list? – Beitz asked that the group on the call share the flyer with those that might have an interest in attending Summit 2019. It was suggested that the one-page flyer should be sent to ARPAS, ADSA, ASAS, PSA, AMSA, and ASN.
 - v. Pre- and Post-Summit Meetings – For the pre-Summit meeting, Beitz suggested that the group should be aware that they should be ‘greeters’ of sorts, and should plan to pair up with speakers to make sure they are acclimated to the settings and getting around well. There will be a large group dinner Wednesday evening.

Lindemann reported that Schoen has confirmed space is available for pre- and post-Summit meetings at NASEM on Tuesday afternoon and then at USDA-NIFA on Thursday morning. On Tuesday the group will meet from 1:00 pm – 5:00 pm; then from 8:00 – 12:00 on Thursday.

7. Report from the Modeling committee – Rossow – Rossow reported that they are continuing work on the modeling committee endeavors.
 - a. Request for modeling program at PSA meetings in Montreal in July - Lindemann reported that this request was originally presented to the Coordinating Committee and discussed for possible approval in October 2018. The formal proposal has now been received and PSA is requesting \$5,000.00 for support of the program at their 2019 meeting.
 - b. Request for support for modeling proposal for ESS meetings in early June – Nathalie Trottier was on the call to review a request for funding of a potential workshop at the 2019 Equine Science Society meeting. The workshop will be selected by ESS before the end of March, but speakers have been confirmed already, so will be available if the workshop is selected. The funding request is for \$4,500.00, of which most is for publication costs.
 - c. Request for undergrad labor for data mining related to amino acid requirement predictions in horses – Trottier also requested \$2,600.00 for labor to hire an undergraduate student to extract relevant data on nitrogen and amino acid metabolism and requirements of equids from the literature. This data will not only allow to build much needed prediction models of nitrogen and amino acid requirements in horses but will also be archived in the NANP data repository. The goal is to present the final paper at the upcoming 2019 Recent Advances in Animal Nutrition (RAAN) meeting in Australia.

Trottier left the call and then discussion ensued by the group over which of the three initiatives requesting support should be funded, and how much funding is available. Cromwell noted that fiscal year 4 of the project is shaping up to be in the red because of the Summit expense already, and these requests will increase that deficit. Cromwell stated that the group should be aware that next year funds will be more limited, but overall, there is not a financial concern for the 5-year project with approving these requests.

Beitz moved to approve financial support for all three initiatives at an estimated total of up to \$12,100. Odle seconded the motion, and the motion passed.

8. Report from the Feed Composition Committee – Dilger – There was no report.
9. New business items or updates
 - a. Newsletter – additional comments were delayed to a future meeting because of time.
10. Closing comments from Administrative Advisors – There were no comments.
11. The meeting was adjourned at 3:15 PM EST.

Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – April 4, 2019 – 2:00pm EDT

Members present: *Merlin Lindemann (Chair), Jack Odle, Don Beitz, Todd Applegate, Ryan Dilger, Nancy Irlbeck, Delbert Gatlin, Carey Williams, Joel Caton*

Administrative Advisors: *Lesley Oliver, Bret Hess, Richard Rhodes*

USDA/NIFA: *Not present*

National Academies/NRC: *Robin Schoen*

1. Chairman Lindemann called the meeting of the Coordinating Committee to order at 2:00 PM EDT.
2. Opening comments from Administrative Advisors
 - a. The advisors thanked NANP for all their work.
 - b. Oliver commented: Think about ways to track the impact of publications created from the Summit.
3. Opening comments from USDA/NIFA – C. Kirk Baer
 - a. *via email to Lindemann:* A reminder, NANP is a recipient of federal funds, NANP representatives cannot meet with congressional staffers on behalf of NANP or during NANP meeting times.
4. Update from NRC/NASEM – R. Schoen
 - a. Sat-Mon (April 6-8) will be the final meeting of the dairy nutrient revision committee. A final draft document will result from this final meeting for the dairy committee for external review. The poultry nutrient revision committee is also meeting at the end of April, and anticipates meeting again at the PSA meetings in July. For the Summit, Schoen is actively looking locally to get more attendees. The Board of Natural Resources will be meeting later in April, and the discussion will include pet food and whether there is need for updating the cat/dog manual.
5. Minutes of the March 7 meeting
 - a. **Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion, and the motion passed.**
6. Report from the Feed Composition committee
 - a. Review of current website activities and usage stats - <https://animalnutrition.org/>
 - i. Dilger:
 1. There has been a flurry of activity on the website lately. The feed composition database is now live. And the modeling database is live as of last week. It is under review this month, so time to make changes.
 2. Dilger is working with Andres and Veridiana, creating landing pages.

3. Had Surface51 hand off all maintenance of the website to NANP, keeping the cost down. The report of web statistics that was sent to everyone was reviewed. Dilger provided notes regarding the statistics; Google analytics provides a lot of data. *Committee members can contact Ryan Dilger with any questions.*
 4. Most are viewing the website in a browser, and there are ongoing efforts to make it user friendly for mobile devices. Dilger commented about goals for growth of access. We need to get more users in from clicking from social media or other websites.
 5. We are trying to track if users go to something else after they visit the homepage.
- b. Expansion of feedstuff filtering capabilities proposal
1. After reviewing the scope of original feed composition database project, it was realized that our capabilities could, and needed to, be expanded. Dilger provided a bid/quote from Surface51 for added functionality to provide users with more granular data and to work towards making a print view so data is easier to read when printed. Now that it is operating, this would add additional functionality that is needed.

The quote received from Surface51 was \$6440. **Motion for approval. The motion passed.**

7. Previous, ongoing, or old business items

- a. ChalkLabs modeling of data from Elsevier for the GANN website – update is in place; plans for road-testing the system
 - i. Not a lot of activity there so far. Not surprising because it has not been marketed yet. Lindemann encourages the committee to access it and explore. Gavin LaRowe noted that from Jan 1 – April 1 2019, the average site bounce rate is good and a great average session duration: 9.5 minutes. So the people that have gone on the website have actually tried to look for people. If there is agreement that it meets satisfaction, it can start being marketed.
 - ii. Questions to address during the May meeting:
 1. Only citations through 2015 – how many of each members citations are being found?
 2. Cost to update the database of citations through the present will require conversations with Elsevier
 3. Looking at additional citations from citing backward and forward. That capability does not presently exist and ChalkLabs does not have the capacity to do that. If that is wanted, a new vendor will need to be used.
- b. Summit 2019 - review of status and needed actions
 - i. Speakers – issues and updates
Beitz: there has been significant progress:
 1. 50-60 people expected attendance
 2. Some changes in the program

- a. Lasley: will provide presentation via video recording
- b. Cromwell: cannot attend, Don Beitz will substitute
- 3. A program booklet has been created
- 4. Approval to record the lectures is being obtained via release form to be signed by each speaker.
- 5. On Tuesday, discussion will need to take place regarding the NANP committee member-lead discussion session at the end of the Summit

Lindemann: it is a little different this time because we have a full speaker lineup, so slightly less time for major discussion. So the last presentation time in the lineup has been changed from a summary of the day's presentations to discussion time to accommodate any contributions from attendees.

- ii. Publication options – preconference thoughts
 - 1. Conference call 4/3/19 of publications committee
 - *Nothing has been finalized
 - a. The speakers were not asked to provide written works, and will not be asked to provide anything substantially written, as it has gotten too late
 - i. The speakers will be asked to provide a few highlights to create a framework of thought upon which NANP can build upon for publications
 - ii. After the Summit, the speakers will be asked to provide 2-3 references.
 - b. The Thursday morning post-Summit meeting discussion will include planning a proceedings paper to be published.
- iii. Live streaming?
 - 1. Zoom will be used to record the Summit. Discussion commenced regarding using Zoom to allow remote access live attendance of the Summit. The committee agreed that a live streaming would allow too many potential issues and security concerns. It was decided by general consensus that Zoom will be used to record the Summit proceedings, so they can be edited and distributed afterwards.
- iv. Marketing and invitations – assessment of current attendance figures
 - 1. Currently 44 registered; Lindemann pressed upon the committee to continue to send out the Summit invitation to those who may be interested in attending
- v. Pre- and post-Summit meeting
 - 1. Pre-Summit meeting; Tuesday, 1-5pm at NASEM
 - 2. Post-Summit meeting; Thursday, 8-Noon at NIFA USDA
Committee members attending these meetings will be sent details.
- vi. Pairing of members and speakers for Tuesday night dinner
 - 1. Lindemann will be contacting committee members individually to pair members with speakers.

- 8. Report from the Modeling committee –
 - a. update on approved summer activity

- i. The proposal for ESS workshop was accepted. The modeling committee will be at PSA with a workshop there. These are new initiated activities in Equine and Poultry, and there will be activities at ADSA and a proposal for an ASAS workshop has been submitted. These opportunities are extending impact in training young professionals and grad students in modelling.
 - b. Facebook presence
 - i. Modelling committee would like to establish a FB page.
- 9. New business items or updates
 - a. Onsite meeting
 - i. This will be discussed in DC next week.
 - 1. Primary discussion will be the next 5 year proposal. Must have a separate meeting than the Summit in DC.
 - 2. Looking to hold it somewhere other than DC.
 - a. Please send any location suggestions to Lindemann.
 - b. Summer societal booths
 - i. Beitz will take care of booth at ADSA. Lindemann has started communications with ASAS but nothing confirmed yet. Applegate commented on having a PSA meeting booth, but with the meetings being in Canada it is tougher to arrange; general consensus to forgo a booth at PSA.
 - c. Newsletter – additional comments
 - i. Veridiana and Andres have responded to the questions previously posed.
 - ii. Discussion will commence while in DC.
- 10. Closing comments from Administrative Advisors

Rhodes and Hess would be willing to assist and advise with renewal. Hess does agree with the comments from C. Kirk Baer's email that the renewal meeting does need to be a separate function. Oliver will be at the Summit for the presentations.
- 11. Adjourn at 2:57 PM EDT

Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – May 2, 2019 – 2:00pm EDT

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

Administrative Advisors: *Lesley Oliver, Bret Hess*

USDA/NIFA: *Charlotte Kirk Baer*

National Academies/NRC: *Robin Schoen*

1. Chairman Lindemann called the meeting of the Coordinating Committee to order at 2:01 PM EDT.
2. Opening comments from Administrative Advisors – Lesley Oliver, Bret Hess
 - a. Oliver: The project renewal submission will be discussed later in the call. The Summit went very well and the program was excellent.
 - b. Hess advises the Committee to be mindful of what the project review committee provides.
3. Opening comments from USDA/NIFA – C. Kirk Baer
 - a. Quite a few activities are finally caught up from government shut-down.
 - b. They should have an RFA call for proposals out in about a week.
 - c. The Secretary of Agriculture expects to announce the short list of possible relocation sites by May 15th
 - d. ERS will be voting to unionize on May 9th and NIFA will be voting shortly after that. ERS initiated the move to unionize based on how NSF unionized when relocated. There were congressional hearings regarding the move, and they were useful for those that oppose a move. However, the only thing that can be done legislatively is to incorporate language into the bill that will prohibit funds being used for relocation. That is an option but it appears that USDA secretary may not need that money, indicating there may be reserves of funds to move the agency without getting it from Congress.
4. Update from NRC/NASEM – R. Schoen
 - a. April was really busy. The final meeting for the dairy committee was held. The poultry committee held a semi-final meeting, and has made good progress. They hope to be further along by the PAS meeting in Montreal in July.
 - b. Lindemann thanked Robin and Jenna for all the work they put into the Summit.
 - c. Lindemann noted the post-docs have prepared a dummy-site, on which the Summit videos and slides were posted and are now just waiting for it to go live. NRC/NASEM will utilize social media to promote the Summit materials once it goes live.

5. Minutes of the April 4 meeting

Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion. Motion passed.

6. Previous, ongoing, or old business items

- a. ChalkLabs modeling of data from Elsevier for the GANN website – update is in place; individual experiences from road-testing the system
 - i. Odle, Applegate, and Lindemann provided comments:
 1. It operated infinitely better than the first draft. The speed was definitely improved; progress is evident. However:
 - a. There are still some publications missing
 - b. When the number of results came back, it looked good, but there were repeats of articles (e.g. listed two, JAS vs JaS, but same article)
 - c. The categories identified (medicine, nursing, etc.) on the first page are not relevant to animal science
 - d. Concept searching comes back with irrelevant results
 - e. There is a disconnect between listed co-authors to what the visualization map looks like.
- b. Summit 2019 - review of the Summit, publication plans, miscellaneous items
 - i. Publication plans.
 1. Publishing a 1-page and a 10-page publications, similar to 2015, consulting a scientific writer.
 2. Robin White has put together a marketing piece to market to different journals for a summary of the Summit to publish in a refereed journal.
 3. Nancy Irlbeck will also be working on a publication, for a refereed journal, addressing the human-animal aspect.
 4. Beitz, tasked with contacting the scientific writer (Susan Reiss) for the 1 and 10 page publications –
 - a. Susan worked on the publications from the 2015 Summit
 - b. She has agreed to be the scientific writer for the similar publications for the 2019 Summit.
 - i. Don Beitz will work with her to produce these publications.
 - ii. She would need the transcript and slides.
 1. Most of the speakers have provided some challenge information: opportunities and key points
 - iii. It could be ready in a couple of months
 - iv. Rate will still be \$95/hour.
 1. Approximately 60 hours in 2015, total fee of about \$6,000.

Beitz makes a motion to hire Susan Reiss to produce a 1-page and 10-page documents from Summit for approximate cost of \$6,000. Irlbeck seconds. Motion passed.

- c. Dates pertinent to project renewal submission
 - i. Lesley Oliver: The first draft needs to be completed by August 1 of year 4 (2019). Peer reviewers need to be identified. Those individuals cannot have a conflict of interest and must be able to meet the deadlines for review. Between now and then, an up-to-date list of accomplishments and results of those accomplishments must be submitted for this year.
- d. Onsite meeting in Denver; committee turnover relative to length/terms of service
 - i. The goal of an in-person meeting is to prepare for the August 1 date of submission for the first draft.
 - 1. Discussion commenced regarding the benefit of having a face-to-face meeting of the committee. The consensus among the committee members is that an on-site meeting is ideal, as other options to accomplish this task would not be as fruitful.
 - 2. Lindemann will make copies of the first and second versions of the project renewal available to the committee.
Lindemann will send out a poll again for an on-site date: mid May to end of June
 - ii. In past onsite meetings, discussion was had about the turnover of committee. Lindemann has begun the process of redrafting solicitation of interest that has gone to department heads and publications.
 - 1. If we do this apart from meeting on-site, should we wait until new committee members are available to meet in fall?
If you know of people who might be good, share with Lindemann. In addition to volunteers, there were calls made to suggested individuals. If you have a change in your circumstance that affects your availability to serve, please let merlin know so appropriate arrangements for replacement can be made.
- e. Equine NRC revision perspective – C. Williams
 - i. A revision is not yet planned. Williams has been in discussion with peers in equine science to plan a meeting to determine the gaps in equine nutrition research, to decide if a revision is needed and what research is needed before a revision can be made.
 - 1. There is the potential for NANP to be asked in the future for funds for support of the meeting.
 - 2. Caton and Applegate provided comments of similar meetings/symposia in beef and poultry, respectively. Applegate mentioned a phone app that was utilized so there could be immediate responses from the audience to ensure it wasn't a one-sided conversation.
 - ii. Lindemann notes, funding was approved for a modeling session at ESS in June
 - 1. Williams may be contacting committee members for suggestions of content for the welcome talk for the workshop at ESS – an overview of NANP.

7. Report from the Modeling committee

- a. Update on approved summer activities

- i. ASAS modeling session is only tentative right now. There is a meeting on Monday to obtain confirmation of approval by ASAS.
 - ii. Planning for the other summer meetings is on track.
 - b. MSI status
 - i. There have been different levels of activity of interaction with NASEM and Lindemann and Lesley Oliver have consulted with lawyers from UK, and the MSI is still in the works. Hanigan did say they found a way to at least begin the process to develop a common interface, although not with the NRC model. The modelling committee could work with the individual engaged originally to do this so that when the agreement is worked out with NASEM, it will be easy to convert the actual NRC materials into that. The funds that were appropriated at the end of the last project are going to give us something that will be developed and progressively improved as there is movement with NASEM.
 - c. Request from Veridiana for support to attend/present at two meetings (EAAP-ISEP and ModNut)
 - i. Both oral presentations and both do have NANP acknowledgement on them.
 - ii. EAAP is approximately equivalent to the ASAS meeting in size but is international. The modeling meeting is usually held soon after, and in the same locale, and they are the hard-core modelers around the world who meet every 5 years. So it provides a good overview of all the modeling done across the entire world.
 - iii. \$3,925 is the proposed budget.

Request for funding approved by majority vote.

- 8. Report from the Feed Composition committee
 - a. Review of current website activities and usage stats - <https://animalnutrition.org/>
 - i. The expansion project is essentially done, just minor tweaking left.
 - ii. To see what is in development, committee members can go to <https://staging.animalnutrition.org/>
 - 1. A recording feature will be developed, to report how many queries are happening.
 - 2. Provide feedback to Ryan Dilger.
 - b. Expansion of feedstuff filtering capabilities proposal – update
 - i. There was a calculating mistake when determining the cost. The committee had approved \$6440, but the actual total is \$9800.
 - 1. Lindemann had made the decision to approve the extra funds to get Surface 51 moving so they could get things done on time.
 - c. MOA for database usage
 - i. There have been 2 requests for access to the feed composition database information
 - 1. One is academic, and one is industry, to bring feed names into their formulation process. Not asking for data, but for the conglomerated names.
 - 2. That created the need for creating standard language for acknowledgement and use of the database.
 - a. Suggested language was developed during meetings of the Feed Composition committee.

ii. It was noted that the language is good, but is there a way to list some kind of citation as opposed to just an acknowledgement.

1. Dilger noted that he had added the citation at the end of the suggested language. The citation follows the format style used by USDA on their food composition database, to be able to track this over the internet.

MOA language is accepted by majority vote.

d. Summer symposium in Austin – proposal for support

i. Extremely short notice. Andres does have a proposal ready to submit to NIFA for support of this. This is an estimate of expenses of \$11,400 for the Feed Composition committee activity at ASAS.

1. All invited speakers have confirmed their participation.
2. Discussion ensued.
 - a. Questions were posed regarding the speaker registration fees and the honorarium estimates.

Beitz moved to approve this request, with the idea that the committee will submit the proposal to NIFA, and that the honorarium should be investigated and removed if a promise has not been made. Gatlin seconded. Motion passed.

9. New business items or updates

a. Social media presence – Twitter, LinkedIn, Facebook

i. The post-docs need a committee member to act as a point-person for NANP approval to post on social media.

1. Ryan Dilger volunteered.

b. Newsletter – additional comments

i. Saved for next call.

10. Closing comments from Administrative Advisors

a. No Comments.

11. Adjourn at 3:22 PM EDT

Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – June 6, 2019 – 2:00pm EDT

Members present: *Merlin Lindemann (Chair), Don Beitz, Gary Cromwell, Ryan Dilger, Heidi Rossow, Delbert Gatlin, Joel Caton*

Administrative Advisors: *Lesley Oliver, Bret Hess, Rick Rhodes*

USDA/NIFA:

National Academies/NRC: *Robin Schoen*

1. Chairman Lindemann called the meeting of the Coordinating Committee to order at 2:01 PM EDT.
 - a. Lindemann notified the committee that Jack Odle has stepped down from the Coordinating Committee and search for a replacement will begin.
2. Opening comments from Administrative Advisors – Lesley Oliver, Bret Hess, Rick Rhodes
 - a. The administrative advisors offered to assist as much as needed for the project renewal.
3. Opening comments from USDA/NIFA – C. Kirk Baer
 - a. Kirk Baer was unavailable for the call but emailed that if you are seeking updates on the status of the planned move, Google “USDA relocation” for information.
4. Update from NRC/NASEM – R. Schoen
 - a. Noted that regarding the NIFA ERS relocation, Congress currently at a stalemate. The decision of the final location has not yet been announced.
 - i. The three primary locations being considered were: 1) Research triangle area of North Carolina, 2) the greater Kansas City region, spanning both Kansas and Missouri, 3) several locations grouped together in Indiana, (with an additional two alternatives: St. Louis, Missouri or Madison, Wisconsin).
 - ii. Schoen presented the views of several ag-related of the number of reasons why a relocation would not be beneficial to them.
 - b. The Poultry committee will be meeting at PSA in July in Montreal. Also, it is possible that the Dairy draft will go into review in July.
5. Minutes of the May 2 meeting

Corrections: 1) a typo, 2) Gary Cromwell’s name removed from attendance. Beitz moved to approve the minutes as distributed with listed corrections. Caton seconded the motion.

Motion passed.
6. Report from the Feed Composition committee
 - a. Review of current website activities, development, and usage stats - <https://animalnutrition.org/>

- i. Dilger: Overall what is happening with the website and various projects:
 - 1. As of last week, moved to a new type of system, Pantheon - better able to maintain and backup website information, recover after catastrophic failure. The last two projects that are still open:
 - a. Databases
 - 1) Modeling database – Veridiana is getting final training and has access to everything. Pretty much wrapped up on our end.
 - 2) Feed composition database – Dilger working with Surface51 the next two weeks to finish a couple tasks.
 - i. The entire dataset that is up presently has been combed within the last 48 hours to remove any outliers.
 - b. Everything is live and working, and starting to see increased activity coming to the website.
 - i. Dilger also put in place the ability to capture who is searching for what ingredients. That information can be pulled into a report for how many total ingredient searches happen on a monthly basis. This is useful for determining what information is needed or desired by stakeholders.
 - c. Website statistics report provided to the committee: this is custom report but Dilger plans to make this in Google analytics so reports can be sent automatically and regularly to whomever the committee so chooses.
 - i. Dilger noted, the 0-10 second sessions are most likely bots – not real people, but computer programs on the internet – and those sessions can be discredited as they are probably not human.
 - d. Lindemann asked what are the primary opportunities for growth?
 - i. The Social Media side is where we will get the most growth. Establishing Facebook and Twitter feeds will help drive more traffic to the website. Getting more people to the website to provide a better understanding of what we are doing.
 - 1. Up to this point, this has been done by presentations at scientific meetings. Now starting to go out and have presentations on what the database is, so that is creating an increase in website activity.
 - a. The uptick in late May corresponds to the presentation by postdoc Andres Schlageter at the Midwest Poultry Consortium.
 - b. Mark Edwards is set to give a talk on the Feed Composition database at the Equine Science Society.
 - ii. There is an increase in activity after the events, but it is also necessary to have things to keep them coming back. The Social

Media side is about generating new users and broadening the awareness of what we do.

iii. How do we keep them? We must make resources that are easier for individuals to use. The website was developed from the beginning to be mobile friendly. Dilger expects more and more traffic that is mobile as opposed to the desktop.

ii. Lindemann reminded the committee that the post-docs were green-lighted to create Social Media presence, with Dilger as their committee resource.

1. Dilger reports there has not been any activity yet. The ideal goal is to get those established before the ASAS meeting in Austin, TX, to have that available and starting at that time.

b. Discussion continued about specific web browser usage comments and questions.

i. Dilger noted that once the beef and dairy databases are uploaded, the ingredients list will greatly increase from ~4,600 ingredients/nutrients (only coming from the peer reviewed literature, from pigs and chickens) to over hundreds of thousands of ingredients/nutrients.

ii. Lindemann will start a list of website review notes to address at length a future meeting, so that Surface51 can get that reconfigured.

c. Symposium at ASAS in Austin, TX: Thursday, July 11th, from 8am – Noon.

i. Speakers will focus on best practices, carbohydrates. Both on the analytical side, and a general lack of data for ingredient analyses for some of the carbohydrate fractions.

ii. Lindemann informed the committee that due to all the activities, there will not be a booth at ASAS, so no volunteers are needed.

7. Previous, ongoing, or old business items

a. ChalkLabs modeling of data from Elsevier for the GANN website – continued update status and costs

i. Lindemann spent 1-1.5 hours going over website with Gavin LaRowe. More things were found. They are in process of getting things updated.

ii. Total cost will be \$14,300 and Lindemann is in the process of getting that invoiced, paid.

iii. Once the final changes are completed, the committee will need to evaluate and decide whether it should have continued updates, resulting in further conversations with Elsevier. This will be an activity to take place in the Fall.

b. Summit 2019 - publication processes

i. Robin White sent out an outline of what took place at the Summit, to market to various impact journals, as well as an abstract of what took place. We are in process of revising/editing outline, will then proceed with revising/editing the abstract.

ii. There is a second paper – animal/human interface. Irlbeck is beginning to outline that.

iii. Susan Reiss update – Beitz stated she has everything she needs now to begin. She was provided with all materials – transcripts, videos, author-provided summaries, etc.

1. The first draft is expected to be provided by July. These will proceed much faster than the other publications.

2. The first estimate was \$5,700. Viewing the videos may take it over \$6,000.

8. Report from the Modeling committee

a. Updates on summer activities

i. Rossow reported that there will be a workshop at ADSA and a symposium at ASAS. The modeling committee is also starting to work on a document for the annual report for August – meeting on that next week.

1. Attendance for meetings:

a. ADSA – 1st year: overview, 2nd year: beginners, and this year will be an advanced workshop. The space has capped attendance around 100 in past years, but workshops in previous years were full, and the expectation for this year is also to be full/nearly full.

9. New business items or updates

a. Project renewal activities

i. Lindemann has asked both committees for a status of accomplishments/activities, to ensure publications are all updated, etc. for the yearly report and for availability as needed for the renewal document.

1. The plan is to follow and update the old proposal.

2. Mid-July will have a first draft of the project. The hope is to get 3-4 committee members together in-person in late July, to hammer out last draft.

ii. Notes from the administrative advisors:

1. Leslie Oliver noted that we have been asked by the NRSP administrative committee to think about a transition to a reduced, or lack of, off-the-top funding model from the experiment station; to have a marketing plan, identifying likely targets for additional support, and evaluate required maintenance costs (or do those need to be maintained beyond a minimal level) to leverage additional funding beyond the off-the-top funding.

Lindemann encouraged coordinating committee members to ponder and share ideas.

2. Rick Rhodes noted that for projects undergoing renewal, that off-the-top funding was meant to be finite. Once projects are up and running, alternative sources of funding should be identified so that new NRSPs can be brought on. Rhodes directs the committee to past NRSPs who have been recently renewed for verbiage to help in the renewal proposal.

a. Hess noted that budget is extremely important while penning the renewal, but the other question to keep in mind is: What would happen if this project is eliminated?

b. Discussion commenced regarding past NRSPs who have renewed and have not been renewed due to inadequacies. Hess advises the proposal needs to be very clear what that leverage has been over the course of the project, in addition to how to better utilize funding and identifying other

funding sources. Hess commented that the budget is extremely important.

- i. Beitz suggested the committee pursue some industrial support, such as AFIA or a large feed company, as there may be extra support that could be provided by FFAR.

1. Robin Schoen has discussed NANP with Sally Rockey, FFAR, and Dr. Rockey said to write up a proposal - something that would not entirely replace the experiment station funding, but something that would be significant, funding that would make this more sustainable in the future.

Lindemann noted he will get a conversation going.

- c. Lindemann noted there is an account at UK for funds from other sources, all minor contributions or gifts given for helping meetings like the modeling meeting at PSA, etc.

b. Zebrafish – Don Beitz, Del Gatlin

- i. Beitz and Gatlin shared details regarding an upcoming meeting of the Experimental Nutrition RIS (research interest section) group of the American Society of Nutrition. One of the Keynote speakers is Steven Watts, leading a discussion about the nutrition requirements and feeding of zebrafish. Watts may be a good resource if NANP wants to form a committee to look into zebrafish nutrient requirements.

1. Gatlin contacted Watts to see his plan for the talk and to follow up on a zebrafish nutrition meeting he held last summer. He said activity at ASN is more of an introduction of zebrafish as a model animal, and aspects of developing standardized diets for them. Watts has not yet created a summary from NIH, but once it is created, Gatlin will share it.

2. Discussion commenced regarding AIN diets for lab animals, which were very well used and cited. NANP could do that for zebrafish, working with lead zebrafish researchers, and get a paper out there and cited. Lindemann noted that it is not production animals but is certainly important on research side of things. Additionally, the recent Summit demonstrated a lack of information across much of aquaculture.

- a. In early fall, we will readdress this topic to see if we want to get more aggressive in this area.

10. Closing comments from Administrative Advisors

- a. The administrative advisors encouraged the Coordinating Committee to keep them in the loop and stated they are happy to provide guidance in the renewal.

11. Adjourn at 3:02 PM EDT

Coordinating Committee
National Animal Nutrition Program – NRSP-9
Conference Call – July 29, 2019 – 3:00 pm EDT

Members present: *Merlin Lindemann (Chair), Don Beitz, Todd Applegate, Gary Cromwell, Ryan Dilger, Heidi Rossow, Nancy Irlbeck, Del Gatlin, Cary Williams, Joel Caton, Phil Miller*

Administrative Advisors: *Lesley Oliver, Bret Hess, Rick Rhodes*

USDA/NIFA:

National Academies/NRC:

1. Chairman Lindemann called the meeting of the Coordinating Committee to order at 3:00 PM EDT.
2. Opening comments from Administrative Advisors – Lesley Oliver, Bret Hess, Rick Rhodes
Comments were held until the end of the call.
3. Opening comments from USDA/NIFA – C. Kirk Baer - not on call
4. Update from NRC/NASEM – R. Schoen - not on call
5. Minutes of the June 6 meeting
Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion. The motion was approved.
6. Report from the Modeling committee
 - a. Brief update on summer activities
 - i. Workshops and/or symposia at ESS, ADSA, ASAS, and PSA. All were extremely well attended. There were approximately 250 attendees at the symposium at PSA.
 - ii. Lindemann noted that there were not only people participating onsite in the “level 1 modeling” at ASAS but people were also participating via the internet.
7. Report from the Feed Composition committee
 - a. Comments about ASAS symposium in Austin, Phil Miller
 - i. NANP had a symposium with 4 speakers. Miller discussed the topics for each speaker. Even though it was scheduled for the last day of ASAS, the symposium was very well attended.
 - ii. Those who could not make it can access the content through the NANP website. JAS has extended an invitation to publish a manuscript from the symposium.

8. New business items or updates

a. Surface51 preapproval for website related activity – Dilger

- i. Lindemann and Dilger approached the Coordinating Committee to consider approving permission for Lindemann and Dilger to approve maintenance and updating expenses of up to a certain amount without getting individual approval from the committee during the monthly conference calls. Typically, Lindemann does approve smaller amounts of \$1-2,000 without a committee approval. Dilger explained that this would be similar to a standing purchase order, of which amounts would only be charged if the hours are used. Discussion commenced and included the year 5 and overall project budgets and expenses.
- ii. **Beitz moved that the Coordinating Committee allow spending up to \$10,000 for Dilger and Lindemann to use for maintenance and updates of the website. Gatlin seconded. The motion was approved.**

b. Project renewal activities – review of draft document to give direction to Lindemann and Caton

- i. Leslie Oliver reviewed the timeline for the next 3-4 months. As soon as the proposal draft is completed, Oliver needs to secure at least 4 external peer reviewers, who need to complete peer reviews in the next couple of months. Then, during December, the Coordinating Committee will have the opportunity to respond to the reviewer comments and suggestions (to both their individual comments and synthesized comments). After that, the responses and updated proposal will need to be uploaded by January 15, 2020 to submit to the NRSP Review Committee (RC). That committee then does it's review where all the regional committees get it and have discussion/provide comments. Then it goes through another revision process by our committee. Then the NRSP RC meets in early summer to make final determinations about the project. Rhodes and Hess made a few additional comments regarding specifics of the process.
- ii. Discussion ensued regarding the NRSP RC membership. Hess noted that next year will be different; leadership will be moving out of the NE region and will be led by the North Central region. The upcoming replacements on the committee will come out of the West region. From the West region: Bret Hess, Mark McGuire from University of Idaho, Jeff Jacobson serving as the executive vice-chair, Doug Buhler from Michigan State will be serving as the chair, Don Latham serves as a lifetime member. The NE representative will continue to be Fred Servello and Keith Owens will serve as the experiment station director from the South region. Ron Brown is the executive director of the Southern Extension Directors' Association. The NIFA representative is Tom Bewick. Rhodes stated that the bottom line is that as the Coordinating Committee is writing the proposal, to remember that the group that is reviewing is a diverse group of directors from experiment stations from across the country or individuals who have experience with ag experiment stations or cooperative extension services, as well as 1 producer, Don Latham as a soy bean farmer from Iowa. Hess noted that there are only two animal scientists on the committee, so the proposal needs to be written to an audience that does not necessarily have an animal science background.

- iii. Lindemann thanked Joel Caton, Ryan Dilger, Andres Schlageter, and Veridiana Daley, who sent tons of information and accomplishments to consider for inclusion in the project as well as worked on different aspects of the renewal document.
- iv. Lindemann will be providing a list of approximately 12 names to Leslie Oliver for external reviewers.
- v. The proposal draft to be discussed is a revision of what was previously done. The Coordinating Committee will have the opportunity to make some changes after the external reviewers provide feedback. Additionally, the administrative advisors will be holding a conference call this week to discuss any issues that may need to be changed before submission.
 1. Hess noted that Dave Benfield has the intention of retiring at the end of calendar year 2019 and has talked to the North Central region administration about a replacement for his position as an AA on our project.
 - a. There are 8 sections with a character count. Lindemann hopes to have the changes completed by 7/29/2019.
 - b. **How is NRSP-9 consistent with the NRSP mission?**
 - i. Irlbeck noted that if the verbiage is edited/condensed, there will be no need to remove any of the ideas to meet the character count. Irlbeck will review that section and proposed modifications will be sent to Lindemann.
 - ii. Lindemann asked if the aspect of the online attendees of the summer workshops should be incorporated into the proposal.
 - c. **How does NRSP-9 pertain to national issues?**
 - i. No comments were made
 - d. **Priorities Established by ESCOP/ESS**
 - i. Caton noted that the challenges seem to be identical to current; most of the language is carried over from the previous proposal, during past reviews this received high marks for this being in-line with what is expected in the section.
 - ii. Irlbeck suggested that there should be one more challenge added: *to train future research leaders*. Irlbeck will evaluate which section that works into and create some verbiage to incorporate in the appropriate section.
 - e. **Relevance to Stakeholders**
 - i. No comments were made
 - f. **Objectives and Projected Outcomes**
 - i. This section is basically our strategic plan. Presented here is the basis of how we work; we're not constrained by it but just guided

by the strategic plan but as new opportunities arise that can be embraced, they will be considered.

- ii. Cromwell noted that “NANP” is introduced here, after using NRSP-9 throughout the rest of the proposal. That acronym needs to be defined or changed.

g. Management, Budget, and Business Plan

- i. Lindemann asked if the members from the other committees should be listed to show diversity and leverage the coast-to-coast involvement. Hess commented that broad interaction among the regions is viewed very positively and that limited representation is regarded poorly.
- ii. Budget will be discussed later in the call.

h. Integration and Documentation of Research Support

- i. Some categories of the included leverage table were in the last renewal. It has been modified to incorporate the current activity from the last 4 years. Some highlighted areas, for which Lindemann needs to get specific information from Robin Schoen.
- ii. The total seems high, but those are the numbers. A key value/leverage is when we get access to data that may be lost if we do not get access to it. The hours associated with acquisition and retention of that original data really increases the total leverage number. In addition, regarding the activities of the feed composition committee, the millions of samples that are now becoming available through acquisition by the feed composition committee makes a big impact.

i. Outreach, Communications, and Assessment

- i. Lindemann encourages Dilger to consider adding some more specific verbiage relating to the website.
- ii. Caton noted that his reaction to the proposal was that NANP is engaging extension more than documented in the proposal. Should engagement of extension be further articulated? Oliver noted it is part of the review to show integration with extension or academic programs and encouraged the committee to include more about that. Any extension program that has used the current beef NRC model has effectively been touched by the work of this committee. Lindemann charged everyone to think of their own universities to include examples of this usage, and get that information to Lindemann and Caton.

- j. Other comments and questions:
 - i. There are a few visual graphics at the end of the draft proposal that could be included, and that were not included in previous drafts. Should they remain?
 - ii. Another unique thing is the video manuscript that was authorized and the usage of that has been greatly climbing since December. The statistics/usage chart could be included. This is a part of moving forward, archiving the retention of research methodologies or information lost as people retire.
 - iii. The Coordinating Committee agreed to use the additional visuals like the usage statistics table and the publications table but not to include the photo related to the video. It was noted that the Publications table will show even more growth for 2019 and 2020 from all the summer meetings and Summit publications.

2. **Project Budget:** This next project budget is nearly identical to the previous one, the exception being the salaries of the post-docs, expanded per government-mandated increase. NANP has not wasted any money but has expanded the program's activities. Some other NRSPs have used funds to take graduate students to professional meetings. NANP does not do that; money has only been used to expand the impact of the activities of the program. Lindemann and Caton have included in the final table of the draft, a grantsmanship expectation for the post-docs, where added grantsmanship is expected. These funds have not been included in the operating budget, but are expected to come in, which was not explicitly stated in the last proposal. Lindemann and Schoen have also discussed a FFAR proposal, where matching funds from variety of organizations are put forward to match the dollars that FFAR has. Some of those organizations that might be engaged were listed in the previous 5-year program proposal. There has also been a proposal from the feed composition committee that was submitted to AAFCO for support of their activities. Grantsmanship for individual committee members is going on, but was not included as a known source of operating revenue.

- a. Beitz noted that it is very good to include evidence of NANP going after competitive grants.
- b. The feed composition committee has often talked about how to develop a program where these feed analysis labs can send data in and see return value for sending us millions of dollars' worth of data.
- c. These are all discussions going on about revenue generation, but not included as known sources of operating revenue.
- d. The question was posed: why increase fringe benefits to \$20,000? The post-docs' salaries are being increased. The fact is, at University of Kentucky, Kentucky has covered those benefits, but for the next five

years, the project may not be at Kentucky and the new location may not have the same policies on benefits.

- e. **Lindemann asked the Coordinating Committee if everyone is comfortable submitting the present expanded budget.**
- f. **The Coordinating Committee agreed by consensus the expanded budget should be included.**

c. Caton and Lindemann will make more changes/edits to the proposal after learning of Administrative Advisor comments before submitting it for external peer review.

9. Closing comments from Administrative Advisors

- a. The administrative advisors agree that NANP has a very good start in this process and they will get back with comments after their Administrative Advisors' conference call later in the week. Oliver noted some items can be adjusted to provide back up to the reports and encourages the committee to put a lot of thought of other opportunities to leverage.
- b. Caton posed a final question to the Advisors: Looking at the budget, there is the expectation for it to decline. Would it be beneficial to include a table to show the budget in relation to inflation? The Administrative Advisors agree that all the directors and projects are feeling the same inflation pressure, all are aware of it, and they recommend not to include it.

10. Adjourn at 4:10 PM EDT

DRAFT

Coordinating Committee
National Animal Nutrition Program – NRSP-9

Conference Call – September 11, 2019 – 1:00 pm EDT

Members present: *Merlin Lindemann (Chair), Don Beitz, Ryan Dilger, Heidi Rossow, Nancy Irlbeck, Del Gatlin, Joel Caton*

Administrative Advisors: *Bret Hess, David Benfield, Rick Rhodes*

USDA/NIFA:

National Academies/NRC: *Robin Schoen*

1. Chairman Lindemann called the meeting of the Coordinating Committee to order at 1:00 PM EDT.
2. Opening comments from Administrative Advisors – Bret Hess, Dave Benfield, Rick Rhodes
 - a. Hess provided an update on the external reviewers: they have been identified and have been sent all materials. The review forms should be back by the middle of fall and the proposal should be on track for the January submission deadline. Currently the reviews are being conducted outside of the NIMSS system, and after that, the formal work will be included in NIMSS. Discussion commenced regarding requesting reviewer identities. The Coordinating Committee agreed with an AA perspective that, in the absence of having requested that reviewers be made known, that reviewers should remain anonymous.
 - b. Rhodes provided updates on USDA/NIFA and stated that the NIFA relocation should not have a big impact on the NRSPs and should not affect the review process nor the project moving forward in the last year.
3. Opening comments from USDA/NIFA – C. Kirk Baer – *not on call*
4. Update from NRC/NASEM – R. Schoen –
 - a. A few people (6-8) who will remain behind, called science liaisons, in USDA/NIFA will be named soon, and will likely be drawn from existing NIFA leaders/staff.
 - b. NRC, Dairy – all chapters are being finalized and formatted for review; ready to assemble team of reviewers. The hope is to be in review within the next couple of months. Dairy publication will probably be 2020.
 - c. Poultry revision committee met in July in Montreal and is moving along well. They all have assignments due by the end of October and it might be able to go to review early next year.
 - d. Bison producers are visiting NASEM the week of September 16th to discuss the possibility of setting up an NRC for bison. They are setting up a center of excellence on bison at SDSU. Schoen asked for advice/comments from the Coordinating Committee.
 - e. Schoen is interested in possibly attending the aquaculture meeting in Idaho at the end of October to assess if assistance can be provided in Washington. Irlbeck offered to help coordinate a get-together after the ID meeting, to discuss the possibilities.

5. Minutes of the July 29 meeting

Beitz moved to approve the minutes as distributed. Irlbeck seconded the motion. The motion was approved.

6. Previous, ongoing, or old business items

a. Summit 2019 - publication processes, Susan Reis activities

- i. Susan Reis did send back some materials. Beitz has been working with Reis. The content starts with the perspective that this is a build on the previous Summit. It is a summary of the presentations, but it is lacking consistency. Beitz recommended a few members of the Coordinating Committee spend time editing and then suggestions can be sent to Reis to pen a new draft. The committee discussed involving the authors in the edits, and all agreed it was a good idea but to make it clear there are limitations on edits/additions. Gatlin volunteered to help Beitz with the editing process. Beitz encourages committee members to send him any comments for edits within the week. No concerns were raised to this course of action. Once the publication is finalized, it can go to FASS for publication, and to various people for translation to other languages.

b. Zebrafish

- i. There have been no updates recently about activity related to the nutrient requirements of zebrafish. Beitz suggested taking initiative to start discussion with research companies; companies are looking for how they should formulate diets for zebrafish so maybe it is up to NANP to be the leadership in this. Gatlin plans to reach out to Steve Watts to see if anything came out of the FASEB workshop. Lindemann suggested if anyone has any ideas/interest in this area to come forward to have NANP pursue.
 1. There is some available budget funds for this. NANP does have funds to engage some good ideas, any projects that look to be in our scope for NRSP-9 activities. Lindemann encourages the Coordinating Committee to pursue any good ideas.
 2. Rhodes reminded the Coordinating Committee that the goal at the end of the fiscal year is for the budget balance is as close to zero as possible.
- ii. Beitz suggested maybe the long-range goal should be fish/shrimp and zebrafish.

7. Report/business from the Feed Composition committee

- a. Quote from Surface 51 for API (attached quote as well as background and MyDairyDashboard screenshot)
 - i. This is a single project and not a part of the authority granted by committee on last call to Dilger and Lindemann for decisions for website projects up to \$10,000.
 - ii. This is one of the unique cases: natural progression, where the feed composition database project has grown over time. This ~\$9,800 request is to allow users outside of NRSP-9 to have direct access to the data. MyDairyDashboard is 1 of 3 groups who have engaged the Feed Composition Committee. This project will relate to how their company (or other outside companies) application/setup can connect with our data.

This API/application/programming interface, described in the provided document, is to create the rules for others to securely access the feed composition data without compromising the internal data. This is a way to share information beyond the website, and the Feed Composition sub-committee sees it as a way to potentially monetize and provide sustainability to the goals of the database.

1. Lindemann added, in terms of eventually monetizing, MyDairyDashboard has certain number of people using their services. If we gave them access and charge \$X per customer, they would build that into their charge to their customers. That would be money coming in and, thinking long-term, would help sustain the website beyond the NRSP. This would also be bi-directional so that information could come back on how their customers are using the data, which is valuable to us for assessment of impact and building of other databases that could be evaluated from a research perspective. Should we decide to discontinue the contract with them, we can cut them off by the flip of a switch.
 - a. When we give them access, flexibility will be built in from the beginning (who has access, what access they have, when they have access, how often, etc.), so the contract can be terminated if/when needed.
 - b. Dilger also noted, at some point down the road, we can discuss if NRSP9 can receive funds. In this day and age, it is just as valuable to receive data instead of money. This is being built in a way so that data can also be received from MyDairyDashboard. Those dairy producers are analyzing their ingredients on a regular basis. If they are willing to send us feed composition data, that improves our database, and therefore we would pro-rate the cost.
- iii. This API protects the original data set to ensure it is secure. It gathers requested data and sends it out, nobody is actually coming inside our database. They do not have access to the raw data, only the summarized data, as any user coming to the website would have. We would still check the new data received before putting it in our database.
- iv. Lindemann noted, to be discussed at the next on-site meeting, setting up a non-profit organization, through FASS, to collect funds. The Administrative Advisors will be consulted to discuss how other NRSPs do this as they transition away from off the top funds.
- v. **Beitz moved to approve the quote from Surface 51. Caton seconded the motion. The motion was approved.**
- b. Conference call with AAFCO (go to <https://animalnutrition.org/index.php/feed-composition-database> and open "corn grain, dry" for better understanding)
 - i. Lindemann received an unhappy email from AAFCO regarding their perspective of the NANP referencing AAFCO on the website. Phil Miller and Lindemann were on a call last week with AAFCO representatives. While NANP had initially requested using their definitions, for a variety of reasons we decided to create our own. Their issue is that AAFCO is referenced at all, even if the AAFCO definitions are not being used. Lindemann

informed them we would consult with our legal group and if NANP has done something wrong, it would be rectified.

1. We have already offered to put a link for feedstuff database users to follow to be able to purchase the AAFCO OP (official publication).
2. Lindemann did inquire with the legal group and they stated there is no apparent wrong-doing or infringement on our part. They said we can keep it unchanged if we want, as the use of a number by AAFCO is not "intellectual property".
 - a. Miller and Lindemann discussed it, and we do not want to create any discord in the animal feed community. All AAFCO references can be removed easily, or a link to AAFCO can be added.
 - b. Discussion commenced and Lindemann will have Lesley Oliver reach out to an AAFCO board member on the UK campus to set something up with both parties so that both parties can have an informed discussion.

8. Report from the Modeling committee

- a. Rossow has nothing to report, as the committee has not met since the last CC conference call.

9. New business items or updates

- a. Aquaculture meeting – University of Idaho, invitation from Ron Hardy
 - i. The reason Ron Hardy communicated to us about the upcoming aquaculture meeting is from being on the program at our Summit in April and the resulting conversation about all the nutritional gaps related to aquaculture. The meeting in Idaho is attempting to engage nutrition leaders.
 - ii. Should NANP have a presence there? All agreed that a representative from NANP should attend.
 1. Irlbeck already registered (and will try to get there, provided classes will not conflict with the schedule). Lindemann will let Ron Hardy know Nancy Irlbeck will attend on behalf of NANP.
- b. Social media strategic communications team
 - i. Right now Ryan Dilger serves as the resource for the post docs but there is need for another 2-3 Coordinating Committee members to serve as a resource. This will be another thing to discuss over the next few months and at the on-site meeting.

10. Closing comments from Administrative Advisors

- a. All agreed NANP is doing a great job. Benfield is encouraged that NANP is interested in aquaculture, as that seems a critical interest in the coming years.

11. Adjourned at 2:02 PM EDT