

Meeting Summary: NADP Executive Committee - Spring 2018

Milwaukee, WI; Thursday April 12, 8:00 am – 4:00 pm

Tamara Blett, Chair, called the meeting to order at 8:03 am and thanked the Executive Committee and the UW-Wisconsin State Laboratory team.

In attendance: Doug Burns, Mike Olson, Bob Larson, Chris Rogers, David Schmeltz, Greg Wetherbee, Doug Buhler, Ann Marie Macdonald, Richard Tanabe, Jamie Schauer, Martin Shafer, Amy Mager, Tamara Blett, Donna Schwede, Mike Bell, Jan Klawitter, Nathaniel Javid, Lisa Volk, Chris Lehmann, Kristi Morris, Ryan McCammon, Pam Padgett, Winston Luke, Sybil Anderson, Mark Nilles, Rodolfo Sosa, Ryan Nelson, John Walker, George Hopper, Jill Webster, David Gay, Rick Haeuber, Ann Rea, Karelyn Cruz, Rosa Wu, Mark Olson, Andy Johnson, Chris Worley, Donna Kenski (phone)

1. Introductions and review of voting members

2. **Approval of the Fall 2017 Exec Minutes** - Donna Schwede introduced the motion; Richard Tanabe second. Greg Wetherbee noted a few minor corrections. Amended minutes were approved and submitted for the record.

3. **Program Office Report - Mike Olson** - The Program Office and the NED moved; the CAL move is still in process. NADP is located at two facilities in Madison. The Program Office, bucket washing and supply shipping activities are located at Henry Mall. Chemical analysis will be performed at the Wisconsin State Lab of Hygiene (WSLH) on Agriculture Drive. Organizationally, the PO and CAL fall under the Environmental Health Division of WSLH. Existing WSLH financial, IT, and communications resources (outside the program) are leveraged to perform NADP business.

Funding mechanisms (transition period 3/1/18 - 9/30/18) - Subscriber fees will remain the same as UI current rates in FY18 and FY19. WSLH will evaluate what the fees may be in future years. The Program will begin to transition to WSLH structured billing.

WSLH has plans for what Mike called a Madison NADP "supersite." WSLH is working with the UW arboretum to set up a NADP outreach site with at least NTN/MDN/AMoN operations.

4. Committee, Subcommittee and Advisory Reports:

- a. Joint – David Schmeltz reported. No motions introduced.
 - Program Office is up and running at UW/WSLH;
 - Lab transition plans in place; WI-CAL to start running 6/1; UW fully expects that UI will not receive samples after 5/29.
 - Greg Wetherbee provided highlights of the Lab Readiness and Verification Plan and activities to assure quality and comparability of the data from UW.

- b. NOS – David Schmeltz reported. One motion introduced: Accept the use of PETG one-liter bottles for MDN, per the protocol presented by HAL, provided we allow a seasonal switch to two-liter bottles for certain sites which receive significant rainfall (Greg Wetherbee introduced; David Schmeltz second. Motion passed).
- Kristi Morris moved to accept the NOS report. Second Pam Padgett. Greg Wetherbee noted that the PETG bottles will be cleaned and recycled to minimize waste. Motion passed.
 - Melissa Puchalski voted in as next NOS secretary to replace Amy Ludtke, who retired.
- c. EROS/Communications Team – Pam Padgett reported. No motions introduced.
- Discussed preparations for the 40th Anniversary Fall Meeting, including timelines, historical photos, and videos.
 - Discussed newsletter and next edition featuring information on the transition; subsequent newsletter will provide highlights on the upcoming Science Symposium. Newsletters will then start up in the Fall on a routine, quarterly schedule.
 - Discussed updating existing brochures, including translating the brochures into multiple languages; two new brochures: CityDep and Mercury in Rain.
 - Pam and Mike Olson drafting a one page “flow chart” with instructions on how to get a NADP site started. The goal is for Pam and Mike to provide this to EROS by the Fall meeting.
- d. QAAQ – Greg Wetherbee reported. No motions introduced during the QAAQ call.
- Discussed having a CAL review around the same week as the BAC meeting in late July; it could be economical to do that since a team would already be in Madison
 - Motion 1 introduced during the QAAQ report: Reset the schedule for the CAL review in conjunction with the QAAQ’s Comparability Verification Plan review; the review would be held in conjunction with the Budget Advisory Committee Meeting in July 2018. (Tamara Blett introduced; second by Pam Padgett. Motion passed).
 - Motion 2 introduced during the QAAQ report: provisionally approve the Ott Pluvio 2S for operational use at NADP sites and request that the available Pluvio 2S field data be presented at the next NADP meeting, with the objective of making a final decision. (Mark Nilles introduced; Pam Padgett second. Motion passed).
 - HAL review postponed until 2019.
 - Collector testing – Currently, NADP does not have a second network collector; a second collector from a different manufacturer is needed, in case the current manufacturer is unable to continue production.
 - Sensor study – Greg Wetherbee looking at the data. For the fall meeting, the goal is to have QAAQ approve certain sensors for network use. Sensor studies have been going on for years and need to be wrapped up.
 - EEMS – Under the Site Survey Program, EEMS is now visiting sites once every four years instead of once every three years. In the interim, spot reports will go to Mark Olson.
 - Site operator training – Mark Olson and WSLH made a commitment to ramp up site operator training; operators need to be engaged more, not only by the PO, but also by site

sponsors (e.g., USGS). Engaging the site supervisors and operators will also be a focus of the QAAG; the QAAQ would consider developing a protocol so the PO, site sponsors, and QAAG are coordinated and not duplicating communications and training efforts.

- e. DMAG/IT transition – Bob Larson reported. No motions introduced.
 - Transition started after the last Fall meeting. Activities included conference calls with the IT transition management team, and planning and information-sharing with WSLH IT team.
 - On 2/28, telemetry was shut down; performed final database transfers, turned off the old website, redirected to the new one, updated email addresses, and restarted telemetry at WI.
 - Current activities - Transition still going on, setting up a CAL data management system; will be tested and operational for 6/1 deadline.
 - Longer term - Plans to streamline data flow between the CAL and PO.
 - Bob will provide an update at the Fall meeting.

- f. CLAD – Mike Bell reported. No motions introduced.
 - Mike provided a background on critical loads, a description of the CLAD organization, and highlights of major activities. Of note, CLAD is preparing critical loads exceedance maps for the 2017 map summary; drafts should be available over the Summer for review.

- g. TDEP – Chris Rogers reported. No motions introduced.
 - Next version of the TDEP map runs will be available in a couple of weeks. This will extend the current database through 2016.
 - John Walker and Greg Beachley are working on the TDEP research needs white paper; their plan is to have the white paper released by the Fall meeting.
 - TDEP is planning to establish a stakeholder working group to address some of the needs identified in the white paper. The goal is to expand collaboration with groups outside of the NADP community, and develop a (meta)database of global flux measurements.
 - Expecting to present papers on uncertainties in total deposition (model-measurement fusion) at the Fall Science Symposium; may organize a workshop in conjunction with the Fall 2019 NADP Science Symposium.
 - Greg Beachley elected new TDEP co-chair.

- h. Aeroallergen – Andy Johnson reported. No motions introduced.
 - National Aeroallergens Network Steering Committee has been established, modeled after NADP Executive Committee. The Committee has standing monthly calls.

- i. CityDep – Greg Wetherbee reported. No motions introduced.
 - Greg finalizing the CityDep brochure to give to the PO team and others to distribute at meetings as a marketing tool.

- j. Budget – Mark Nilles reported.
- Mark reviewed the purpose of the Budget Advisory Committee and provided a read-out of the committee meeting last August.

Motion: to accept all the subcommittee reports together (Donna Schwede introduced; second Richard Tanabe; Motion passed).

Old Business

1. Fate of \$55K profit from Acid Rain 2015 (Spring 2017 Exec decision was to distribute as follows: \$10K seed money to Japan for Acid Rain 2020; \$10K PO staff travel for planning support; \$15K PO staff travel to Acid Rain 2020 in Japan; \$20K for student expenses for future NADP meetings).

Motion: to pursue the transfer of funds to Japan (Pam Padgett introduced; David Schmeltz second). David Gay and Doug Burns will call the meeting organizer and see if funds for Acid Rain 2020 can be passed now; if so, David and Doug will ask to have an invoice sent to UI.

2. NADP modernization site telemetry - Mark Nilles – Adding telemetry would add significant value to NADP and be a benefit to the program and the broader user community. Just having real-time precipitation data, alone, would be incredibly valuable to agencies such as the National Weather Service. Within NADP there has been a lack of critical interest to adding telemetry, as sites are visited weekly; however, one of the advantages of telemetry is having the capability to identify and diagnose problems in advance, before arriving to a site. Mark has made a pitch within USGS in the 5-year planning cycle for telemetry upgrades that would bring all the sites online.
3. NEON coordination update – Chris Lehmann provided a brief overview of NEON. In 2003, NADP drafted a memorandum of understanding (MOU) with NEON. NEON and NADP had overlapping interests, among many objectives, NEON was seeking to measure precipitation, other meteorological parameters, and wet deposition. The plan will be to engage the NEON principals on a scientific level and see if a rapport can be established; Tamara will include a NEON update as an agenda item in the Fall.
4. Mercury Litterfall - Doug Burns provided background information on the litterfall network. With Marty's retirement from USGS and the transition of NADP to UW, the question was how litterfall would continue to operate into the future. Mike Olson and Jamie Schauer noted that WSLH has the capabilities and interest to do this work; but do not want to pursue formally taking this on in the near-term, given the WSLH workload.

In conversations with Marty Risch, Doug offered to continue running the network.

Motion: To extend the transition period of the litterfall network to 2020; USGS/Troy will maintain operations within this three-year timeframe and initiate discussions with WSLH about potential longer-term interests in operating the network and supporting analysis. (Pam Padgett introduced;

second Chris Rogers; Motion passed). USGS Wisconsin Center would also continue analyzing samples in the near-term.

5. Strategic Plan Development

Doug Burns noted the discussion at the Executive Committee meeting in Louisville about the benefits of strategic planning. Doug and David Gay were charged with thinking about what a strategic plan for NADP might entail. David drafted a very preliminary strategic plan approach. The strategic planning effort was then put on hold, given the decision to transition the Program to WSLH.

New Business

1. U of I funding status overview – Lisa Volk

- Lisa provided a financial summary for UI.
- Lisa reviewed all the accounts and expenses that need to be paid by 8/31/18.

2. I-CAL to W-CAL transition report - Sybil Anderson, Interim I-CAL Director

- Wrapped up audit and response this past summer; reiterate they have staff and intend on completing deliverables; continuing with verification plan, regular conversations with Greg Wetherbee, Martin Shafer, Amy Mager and Camille Danielson.
- The I-CAL will end sample collection and supplies 6/1; samples that come off 6/1 and beyond will be sent to UW.
- AMoN is complicated – circular process; prep the samplers, send them out, and then get them back for analysis. Last deployments for AMoN coming from UI are the samples May 15 – 29th (May 15 deployment, taken off on May 29th). Several sites request that they get their samplers earlier (~ 23). UI will send those samplers ahead of time, but those will be analyzed by WSLH.
- Sybil noted reductions in personnel, including in shipping and receiving. Bondville, IL site is still operating, several ongoing projects there.

WI Lab Transition Report - Martin Shafer, WSLH QA Director

- June 1st WSLH will be ready to start processing and analyzing samples, managing data, performing QA, and shipping and receiving.
- The WSLH goal is to maintain continuity of operation and comparability of data.
- Ammonia measurements will be performed in a small, dedicated room to limit the potential for contamination; plan to keep random blanks down.
- Bob Larson transferred all the databases and applications to UW. UW is compiling and beginning to perform testing of the IT systems.

3. Developing a “Vision” for the NADP – Jaime Schauer

- WSLH offers potential, new opportunities and directions for NADP; the ability to leverage all the scientific capabilities at WSLH and UW and numerous global connections which can expand NADP scientifically.

4. NADP Governance Handbook – Handbook changes are needed as a result of the Program transition.

- Ad-hoc Committee formed: Kristi Morris, Mike Olson, Pam Padgett, and Cari Furness to markup the Handbook, in coordination with Jan Klawitter.
5. QA site for PO – Fate of Bondville and new QA site at WSLH –Mike Olson and David Schmeltz
 - Mike reported earlier about plans for a showcase site in the Madison area. Regarding the Bondville IL (IL11), all NADP analyses will be done by WSLH. All equipment has been inventoried. Mark Olson and David Gay noted ownership of all the NADP equipment at the Bondville site has been transferred to UW. NOAA and OTT rain gages will remain at Bondville. Mike and David proposed that NTN and AMoN operations (at a minimum) continue at Bondville;

Federal Agency Reports

1. USDA-NIFA – Karelyn Cruz - Waiting on signatures to finalize subawards; ongoing work on federal agency agreements. Working on the next cooperative agreement in the next month or so; trying to move on that quickly, but NIFA is understaffed.
2. NPS – Kristi Morris. NPS is the third largest contributor to NADP. The Air Resources Division has three monitoring programs: Visibility, Ozone, and Deposition. Data from NADP are used to assess progress. Two mercury projects: Dragonfly larvae collected and analyzed for mercury; 2,000 fish at 34 parks sampled and analyzed for mercury and mercury isotopes; methylmercury and endocrine endpoints; data release and manuscript are forthcoming.
3. BLM - Ryan McCammons – Small contributor to NADP; Ryan taking over for Dave Maxwell. BLM supports a network of monitors in Wyoming called WARMS, which is tied into CASTNET. BLM focus is NEPA.
4. EPA - David Schmeltz – The funds for EPA’s support of NADP come out of the CASTNET appropriation under what is called the Science and Technology or (S&T) account; the S&T account was level funded in FY 2017, with a \$7.35M rescission; The monitoring related priorities in EPA’s Office of Atmospheric Programs remain the same: keeping NTN, AMON, CASTNET, and LTM surface water monitoring sites running and producing high quality data; etc.
5. FWS – Jill Webster – FWS supports seven NTN sites and six MDN sites. Establishing new contract with UW, including four litterfall sites co-located with MDN. Jill leaving FWS, unclear how NADP responsibilities will be handled.
6. NOAA – Winston Luke – Largest role in NADP is to support AIRMON. AIRMON continues; NOAA sponsors five NTN sites, which will remain; one MDN site; three AMNet stations will continue: Grand Bay, Beltsville, Mauna Loa.
7. USFS – Pam Padgett – Research Branch funds NADP; the National Forest side of USFS which is significantly larger, uses NADP data as well. National Forest uses data primarily for air quality analysis in Class I wilderness areas, etc..
8. USGS- Mark Nilles – Largest funder of NADP; business as usual; Waiting for DOI to approve the overall USGS spending plan before FY18 funds can be transferred. Priority is deposition as a starting point, land-use, and agricultural impacts to water quality; etc.

Stakeholder Reports

9. Maine – Andy Johnson – funds NADP sites through a combination of air grants, water grants, and solid waste grants. Status quo.

10. Great Lakes Mercury Monitoring Network – Donna Kenski – LADCO continues to support five MDN sites – three in Indiana and two in Michigan. One AMNet site sponsored in Indiana and three litterfall sites collocated with MDN. Donna mentioned interest in the Bondville site and the need to find support for MDN.
11. Environment and Climate Change Canada (ECCC) - Ann Marie MacDonald – five MDN sites operated by CAPMON, additional MDN site at Alberta Oil Sand started last year; three AMON sites running as part of a pilot study; one AMNet site that Rob Tordon runs in Nova Scotia; ECCC participates in the NASA PANDORA initiative and reports under US-Canada Air Quality Agreement.
12. SAES – Doug Buhler – offered praise for making the transition a success, and for making a difficult situation into real opportunities. Committed to figuring out the best way forward to reinvigorate the agriculture community and look for opportunities around agricultural connections. (e.g., plant stress); George Hopper echoed Doug’s remarks and suggested NADP continues to pursue opportunities to get students involved in the program.

Meeting Adjourned.