

## **Executive Committee Meeting Minutes**

**November 9, 2020**

### **Virtual Fall Meeting**

**Members and Participants Present:** John Walker, David Gay, David Schmeltz, Richard Tanabe, Bob Larson, Chris Worley, Winston Luke, Ryan McCammon, Camille Danielson, Jamie Schauer, Rick Haeuber, Richard Grant, Mark Olson, Greg Wetherbee, Chris Rogers, Kristi Morris, Doug Buhler, Greg Beachley, Jeff Herrick, Doug Burns, Melissa Puchalski, Catherine Collins, Nathaniel Javid, Linda Geiser, Katie Benedict, Anne Marie McDonald

**Voting Members Present:** David Schmeltz (Chair), Doug Burns (Past Chair, Budget Advisory Subcommittee Chair), Greg Wetherbee (Vice Chair), John Walker (Secretary), Melissa Puchalski (NOS Chair), Catherine Collins and Chris Rogers (EOS co-Chairs, one vote), Richard Grant (SAES Representative)

### **Motions Passed**

Motion presented by David Schmeltz to approve all committee reports. Greg Wetherbee moved. Catherine Collins second. Motion passed by virtual polling.

Motion presented by Mark Olson to allow Program Office to update contact info and references to "Illinois" in governance document immediately. Ryan McCammon second. Motion passed by virtual polling.

Motion presented by Greg Wetherbee to adopt sample archive plan presented by David Gay. Second by John Walker. Motion approved by virtual polling.

### **Opening of Meeting**

David Schmeltz opened the meeting. Jamie Schauer gave some introductory remarks. It is important to recognize it has been a challenging year. Should recognize that everyone has been affected by the pandemic differently.

### **Program Office Report – David Gay**

*Goals for next few months:*

CAL: AMoN price reduction testing, bag sampling implementation

PO: Integrate new hires, persistent site problem reduction, mercury plans and site number increases, new website, training program

Data: Goal is 3 months to PO for all networks, 30 days post lab to the web

HAL: litterfall improvements, AMNet

*Financial news:* Should see significant budget savings without travel. Will spend some on hiring, website and construction. Saved about \$45,000 by not having in-person meeting this fall and may save up to another \$30,000 if the spring 2021 meeting is virtual. Cannot currently travel for AMNet or meetings to represent NADP, which has resulted in additional savings.

*Employee changes/Subcontractors in PO:* half time problem solver to work with EEMS and persistent site problems, half time “mechanical” person to help fix things. Working with Physics Department electronics shop to help fix more complicated electronics issue and other. Very inexpensive. Richard Tanabe is now full time.

*Federal Agreement/SAES/Reporting:* USDA/Fed Agreement: FY20 report done for USDA, FY21 paperwork for USDA complete. SAES: FY20 report coming up. Reporting: FY19 publications compiled.

*Financial Personnel:* Tip Vandall and Nate Lepak are up and running and doing a great job. Chris Gunter has retired.

*General Network News:* First bag sample off: MN08, 10/20/2020. Purchased 30,000 bags (2.2 years worth), CAPMoN supplier. Savings will begin to show up in 2020 budget. Estimate between \$120K and \$179K/year (10-17%)

*New Website:* Will kick off with “DoIT” on Wednesday. Expect cost to be \$20-25K. Website may be up by January. Goals are for site to be easier to use, to be adjustable by multiple people, and utilize more current techniques and programming.

*800 Phone Line:* PR20 cannot use 800 number. Turns out VI01 and TW01 couldn’t either. Now Canada can’t use the phone. Working with UW to figure it out. 800 number does not cost PO anything currently.

*Map Summary:* Ready to go on the web (and twitter). Do we want to print this year? Recommend we only print 1500 copies (\$2509) this year. Print calendar? Assume so.

*PFAS in NADP Samples:* Funds completely separate from NADP. \$20/sample is collected by NADP for expenses. 27 samples collected as of ~10/20/2020. Several groups possibly interested in future testing, including NY DEP, MI DEP, WI DEQ.

*New Total P/Total N sampler:* Have spent \$1800 on prototype. Next steps: 2<sup>nd</sup> prototype, have some ideas. Testing at Eagle Hts. Will provide samples for lab testing and continued evaluation of analytical method. Will develop cost estimate and then bring info back to Exec.

*Acid Rain 2020:* Has become Acid Rain 2022, 1-4 March, 2022 in Nigata, Japan

*New Dry Deposition Sampling:* Janice Brahney on 10/22 let us know that new NSF funding is available for more dry deposition monitoring. Proposing 10-12 sites and has a potential site list.

*Recycling Gloves:* Will start recycling vinyl gloves. Cost = \$1000.

*Unused email lists:* For Budget and Exec.

*Questions/Discussion:*

Linda Geiser – Will there be more follow up with Janice B. on microplastics? David G. – You should follow up directly with her on microplastics. Regarding P/N deposition, Janice is planning more dry dep measurements.

Dave S. – Would be good to have map summary during administration transition period (January). Will send them out soon.

## **Committee, Subcommittee and Advisory Reports**

*Joint/NOS Report – Melissa Puchalski*

One motion to elect Tim Sharac as incoming NOS secretary (passed).

Several talks on improving training and better use of survey report. Can expect this to feed into DQO Summit that Camille D. will mention.

Bob L. is working smarter system for battery management at solar sites.

Janice B. gave an update but then there was a discussion in Joint about how NADP will consider dry deposition, in general, moving forward. More discussion to come on this.

Two motions in joint (both passed):

- 1) Litterfall network will continue as provisional network for two years for refinement and method improvement. Method development will be left to HAL and PO and discussed in MELD before presenting to Exec in spring 2021 to consider litterfall as an official network.
- 2) Doug Burns nominated Linda Geiser as incoming Secretary for Exec.

Looking at Knoxville for fall 2021 in-person meeting. Spring meeting will be virtual. Winston – May move meeting forward if fall meeting moves forward to September. John – Week of Sept 13<sup>th</sup> not available.

*EOS Report - Catherine Collins*

No motions from EOS.

Working on adding MELD to governance document and will bring that to Exec in spring 2021. Encouraging committees to link to Wikipedia page. Will be starting up EOS meetings in Jan 2021. Mercury in Rain and AMoN brochures should be completed by end of year. Nine student posters and nine student presentations were evaluated at the fall 2020 meeting and will be announcing winners soon on social media.

*QAAG – Camille Danielson.* Meetings were held in August and October.

Motions: Approval of CAL/HAL 2020 QAPP, approval of CAL/HAL 2020 QA report, approval of AMNet 2017/2018 QA reports.

Tim Sharac is leading a workgroup to look at siting criteria and assess if changes are needed. Looking at mid-January for a DQO summit. Working on finalizing date. Will include lab and field QA activities. Chris Worley discussed AMoN core/body testing for reuse to save money. These studies are ongoing and Chris will report back to Exec before implementing any network changes. Greg W. talked about QA audit program changes and people voiced support for the program and concern about cutting back. Bob Larson proposed developing a method for electronic rain gauge accuracy checks. EEMS gave update on site surveys but AK and Canada on hold due to COVID restrictions. Looking at implementing a small 'q' notes code for NTN and AMoN indicating a minor QC problem and a QR code of B (data valid but analyte specific concern).

*DMAG – Bob Larson.* Met last Tuesday.

Only motion was approval of minutes. Got a report on a new weekly "data team" meeting in which data folks meet with field folks. Got an update on new TDep scripts from Greg Beachley. Survey available for suggestions on website update. Some discussion on how DMAG could provide input to DQO meeting. Discussed Exec/Budget listserv. Some chairs use them and some don't. Should we keep them going? Will do so unless we hear otherwise.

*CLAD – Jeff Herrick*

Motion to elect Justin Coughlin as secretary (passed). With Linda shifting to Exec, CLAD will need to find another CLAD co-chair. Jason Lynch has finished 2020 critical loads summary. Mike Bell is heading up a CLAD monthly seminar series starting in January. Mike Bell and Jason Lynch will be planning for fall 2021 CLAD workshop if we meet in person in Knoxville. Linda G. working on critical load videos. Mike Bell finishing up Bridger-Teton report.

*TDep – Greg Beachley*

Motion to elect Ryan Fulgham as secretary (passed). Good feedback from Google registration form. Chris R. and Kristi M. talked about TDep white paper fact sheet that is in the works and discussed white paper webinar series. John W. talked about Ag workshop summary and Anne Rea talked about elements of a stakeholder engagement plan. Mike Bell discussed deposition studies assessing uncertainty. Went through MMF script conversion. It's complete but a few final details to work out. On track and should be done by end of year. Next step is to incorporate CMAQ 5.2 time series into script. Talked about some new applications for TDEP maps, such as urban deposition (Greg W.).

#### *MELD – Rick Haeuber*

Had about 70 people at max. Very good turnout. Divide meeting into 4 sections: (1) Update on Minamata. Secretary will issue monitoring guidance early next year so MELD will have opportunity to comment. (2) dPresented plans for mercury measurement workgroup. Idea is to look at measurements within NADP and see what else is needed and where efforts can be coordinated and whether there are potential synergies with outside activities. Planning for virtual workshop on mercury measurements in January. In spring 2021 team will present findings and recommendations to MELD. 3) Had a set of talks on mercury and fire. 4) Section at end of meeting for round robin on current projects/activities. There were no motions.

#### *Greg Wetherbee – CityDep*

Verified status as ad-hoc group. Working on research proposal that Leora Nanus is leading. Talked about status of CityDep sites. Talked about NADP 2020 presentations on urban deposition issues. Ended with a discussion of possible new monitoring technologies like IERs for cheaper sampling at reduced frequency. No active projects. There has been talk of expanding Aeroallergen to a biomonitoring type committee which might make it appropriate to merge with CityDep.

#### *Andy Johnson – Aeroallergen.*

AMSC benefitted from virtual format of last meeting. Had about 18 people on Zoom session. Still no co-chair but Andy is looking. Great presentation from Daniel Katz at UT Austin on modeling pollen. Covered a wide range of topics in the follow-up discussion. Maine Climate Council's report to be issued in December 2020, which includes a proposal to monitor aeroallergens in every county in Maine. Good discussion of draft grant proposal to expand using existing NTN deposition samples for pollen concentrations. Action items were defined for next steps. Aerobiology Research Laboratories (ARL) in Ottawa made a couple of offers for

collaborating with CityDep to analyze samples and for making a pollen sampler available for the grant. There were no motions.

#### *Doug Burns – Budget*

No motions. NIFA at the time was in the process of hiring a new project officer. David G. says it is still Rodney but that will change soon. Expecting a relatively level budget next year.

Dave Schmeltz – Motion to accept committee reports. Greg W. so moved. Catherine seconds. No discussion. No one opposed. Motion passed

### **Old Business**

#### *Strategic initiative – Dave Schmeltz*

In Spring we approved 9 strategic initiative areas. Next step is to prioritize them and set some concrete steps forward for the next 1 to 2 years. We should prioritize there in terms of new initiatives. The committee will identify things that can actually be done. New adhoc committee: Greg W., Dave S., Kristi M., Catherine C., John W. and Martin S. David Gay will assist as needed.

#### *Litterfall – Mark Olson*

Mark covered history and transition of the litterfall network in Joint. Motion was to extend the transitional status of the network. PO will come back to Exec in spring to discuss efficiencies/current experiments/make recommendations and decide if we want to move beyond transitional status. Much discussion without any motions.

#### *Governance Document – Catherine Collins*

EOS will provide draft of updates to Exec and finalize at the spring meeting. Latest round of changes would be finalized in the Spring. Proposes a motion to allow PO to update contact info and references to “Illinois” in governance document immediately. Second by Ryan M. Richard T. – We can add text to the cover that indicates document is under review. Rich G. – We should do this right away. Vote was called by Dave S. Motion passed. Richard T. will update the document by end of the week and send to Catherine.

#### *IL11 – David Gay*

Chris Lehmann now works full time in the Vice-Chancellor for Research office at UI. David is now working with Nina Gartman on IL11 sample archive Big issue is lack of access to buildings at Illinois.

## **New Business**

### *Sample Archive – David Gay*

WSLH picked up the archive program that started at UI. In 2018, the long-term archive was changed from random locations (UI) to regional locations (UW) but “forever” sites were kept. UW does not have as much freezer space as UI. The space at the Biotron is no longer available. The following plan is being proposed.

- Forever sites: NE15, NH02, IL11, WI06 (added in 2018). Frozen and kept indefinitely. No change.
- Longterm “fixed” archived samples: Adopted regional module in 2018. Frozen and kept indefinitely. No change.
- 2 years’ worth of AMoN aliquots: All sites. Frozen, kept 2 years, rotated annually. No change.

Proposal is to change 5-year archive (60 ml aliquots of all samples from all sites). We propose to refrigerate rather than freeze them. Camille – To clarify, my understanding is that UI was only freezing forever and AMoN and everything else was refrigerated, including 5-year. Going forward at WSLH, fixed and forever NTN, as well as the AMoN archive, will be frozen. All other sample archives will be refrigerated. Greg W. – Move to adopt sample archive plan presented by David Gay. Second by John W. No discussion. No one opposed. Motion carries.

### *PFAS Update – Martin Shafer*

Recapped presentation. Sampling and analytical protocols were established during pilot study. Results from Wisconsin study were presented. Talked about new EPA work which will include four sites on east coast sampled for two years. Duke Forest will include triplicate wet dep sampling and eventually throughfall sampling. Talked briefly about further interactions with IADN. NADP is currently facilitating PFAS work but perhaps in the future should have a larger role in expanding the sampling geographically.

### *MDN data product – David Gay*

The idea of a “Supervisors Annual Report” came out of the Strategic Plan as a way to provide more value to the data. The report is designed to: Be automatically generated, Be sent to site supervisor at the end of each year, Provide each with full explanation of the measured results, Put the results into context, Provide them with information/graphics to be clipped out of this report into their own reports, Provide meaningful information to justify further funding *and understanding* of the MDN data. The goal is to run the report at the end of the year and send to site supervisor. All automated. Should be ready in next few months.

## **Agency reports**

*USDA/NIFA* – Rodney not on the line.

*NPS – Kristi Morris* 2021 budgets should be flat or slightly decreasing. Last year worked with EPA to understand what site closings would mean for TDep maps. Probably will lose a site or two this next year. Carol McCoy will retire next year (Division Chief).

*BLM – Ryan McCammon* BLM was able to add funds to NIFA agreement and amend POP through June, 2022. WY26 being funded now.

*Fish and Wildlife – Catherine Collins* Will continue with all litterfall sites. Admin folks in Headquarters are working on ratification.

*NOAA – Winston Luke* Budget is status quo. Working on NIFA agreement now. Will maintain same 8 NTN, 1 MDN, 1 litterfall and 3 AMNet sites. Grand Bay AMNet is shut down and will transition to AK when travel restrictions lift.

*USFS - Linda Geiser* Funding is about steady. FS is changing budgeting process to increase transparency.

*USGS – Doug Burns* Working budget this year same as last year so will fund same # of sites. Adding some collocated collectors at urban sites.

*EPA - Dave Schmeltz* Budget will be tight. Expect to need to put together new communication info for new administration related to monitoring (transition materials).

## **Stakeholder Reports**

*ECCC - Anne Marie McDonald* New contract period started in October. New AMNet site hopefully will start in the spring. Still working from home with minimal analytical staff only receiving/logging samples and sending out sample media. Hope to have analytical lab running again in 2 weeks at about half capacity.

*Maine DEP – Andy Johnson* We are in 2<sup>nd</sup> year of 2-year budget with much unknown. Will have better update at the spring meeting.

*LADCO* Representative not present. Donna Kenski has retired and Angie Dickens has replaced her. Not sure if LADCO wants to continue to be involved. Angie plans to meet with David.

*SAES – Rich Grant* Not present.

*SAES Directors – Doug Buhler* 5-year funding commitment was renewed last year so we are in good shape. Everything is in good shape with the SAES Directors.

## **Meeting Closed**