

SUMMARY
TNI CHEMISTRY EXPERT COMMITTEE MEETING
August 2, 2021

The Chemistry Expert Committee (CEC) met August 2, 2021, at 1:30 PM ET. The meeting was conducted as a face-to-face and virtual event during the Environmental Measurements Symposium in Bellevue, WA. The meeting was recorded. The recording will be deleted upon completion of the meeting minutes. Michelle Wade, CEC Chair led the meeting.

Roll Call

Joseph Manzella, OCSD (lab)	Present
Jay Armstrong, VA DGS (AB)	Present
Nicole Cairns, NYS DOH (Lab)	Present
Paula Blaze, NJ DEP (AB)	Absent
Eric Davis, Horizon (Other)	Present
Deb Gaynor, Independent Consultant (Other)	Present
Shawn Kassner, Pace (Lab)	Present
Max Patterson, UT DOH (AB)	Present
Charles Neslund, Eurofins (Lab)	Absent
Calista Daigle, Quality Consulting (Other)	Present
Tony Francis, Saw Environmental (Other)- Vice Chair	Present
Ali Boren, State of Vermont (AB)	Present
Lee Wolf, Consultant (Other)	Present
Chad Stoike, ALS Global (Lab)	Present
Michelle Wade, A2LA Workplace Training (Other)- Chair	Present
Robert Wyeth, Program Administrator	Present

Committee members were present either as in-person members or as attendees/panelists on Webex.

Associate members present were Valerie Slaven, Carl Kircher, Debbie Bond, Crystal Sheaf, Ryan Lerch, Hong Yu, Autumn Fetty, Kelvin Yuen, Socorro Baldonado, Adrian Gonzalez, Adam Kinson, Michelle Potter and Colin Wright. Numerous guests and other associate members were also present.

Agenda Approval

Michelle presented the agenda as previously distributed and no comments and/or changes were proposed.

June and July Meeting Minutes

The absence of a quorum for the July meeting moved approval of the June minutes into the August meeting. The June 2021, minutes were presented for review. A motion, following minor editorial changes, to accept was made by Shawn and a second by Calista. The June minutes were unanimously approved.

The July minutes were then reviewed. After a minor editorial correction, a motion by Shawn and a second by Lee, the minutes were unanimously approved.

Copies of the June and July CEC minutes were forwarded to William for posting. Copies of these minutes are embedded below.



CECC Minutes



CEC Minutes

06.02.2021_Final.docx 07.07.2021_Final.docx

Training Reminder

Expert Committee training has been revised and will be available for all committee members. Participation in the training is required for all committee members and recommended for all committee associates. Michelle should be notified, with a cc to Bob, when each committee member completes their required training. Paul Junio, CSDEC Chair indicated that this long-awaited link should be available soon and he will distribute it ASAP.

SIR Review

Non-Valid SIR

After Bob defined the Non-Valid SIR for the attendees, Michelle presented Non-Valid SIR 405 (regarding analyst training, i.e., the process and the trainer) which was determined to be not valid as this subject matter is not an element of M4 but rather other TNI Modules.

The second non-valid SIR was 409 (i.e., method specified requirements) was not valid as the TNI Standard does not address method specific requirements as compliance with said requirements must be assured.

Valid SIR

391

The first SIR discussed was SIR 391 to which the committee has made numerous responses to the LASEC. The issue is the requirements for determination of Relative Error for pH, conductivity, fluoride, ammonia, and other tests performed using ion specific electrodes (ISE). The CEC's responses were ultimately approved by the LASEC/AC but additional questions were asked of the CEC which have also been appropriately addressed. Fundamentally, the questions are "how to" or "must it be done". The answer is the Standard is not a "how to" document nor was it designed to be. Basically, determination of error is a requirement, and it must be done. The CEC will address this issue during review and potential modifications to M4.

CEC's SIR subcommittee will draft a formal response to the LASEC's questions for full committee approval and submittal to the LASEC. Paul Junio volunteered to prepare the first draft of said response.

410

The SIR regards calibration requirements for Ion Specific Electrodes methods. SIR 390 to which the LASEC has not yet responded to the CEC is similar. The committee agreed to table a CEC response to SIR 410 awaiting LASEC comments on SIR 390. Michelle will advise Lynn on behalf of the LASEC that the CEC response has been tabled and a formal response will be forth coming.

Notice of Intent (NOI)

Bob presented the draft notice of intent to establish or modify a standard. It was pointed out that the form presented was inconsistent with the form presented in SOP-100, Rev. 3.4. Bob agreed to resubmit the NOI to the committee for consideration in September. Noted editorial changes and content (language) in the body of the NOI will also be addressed. Once the committee approves the NOI, approval of the CSDEC will be sought and notifications as required by the SOP 2-100 will be made. The revised NOI, addressing these concerns is presented below.



NOI Form.2 _8.3.2021
RKW.docx

Module 4 (EL V1M4) Review

The majority of the committees' time has been consumed by addressing multiple SIRs. The SIRs addressed have resulted in the committee's need to address language in M4 regarding calibrations (including error determinations for ISE), demonstration of analyst and laboratory capabilities, and limits of detection and quantification.

The process of detailed review of the module has begun and discussion and comment-gathering continued during the August CEC meeting. The committee is reviewing the module in its entirety including the issues identified in the SIR review noted above.

Discussion as to potential modifications of M4 during this meeting began with the following sections:

Terms and conditions- some changes may be required to be consistent with other modules and/or standards and the Glossary being developed by the CSDEC.

Method selection- likely to be removed and covered in method verification and validation (which will be a new section in the module). Selectivity may also be developed as an element of a Guidance Document. A comment was made that the QS committee is revising M2 and speaks to these issues to ensure compliance with the

2017 version of ISO 17025 and that coordination with that committee would be advisable.

Validation- committee feels an extensive rewrite of this section is required and that the concept of verification needs to be included, possibly as a separate section.

Limits of detection and quantification- will be developed as separate stand-alone section of the module after extensive rewriting. Will ensure consistency with EPA requirements.

Evaluation of precision and bias- some discussion has been had relative to “grandfathering” which will likely remain in the module. Section to be clarified for useability. Examples to be removed as not an appropriate element of a standard but may be included in a guidance document.

Technical requirements: Calibration- A suggestion was presented that the phrase “associated with” (both here and throughout the module) should be changed/reworded. In this section the suggested language was “acceptable calibration established prior to sample analysis”. Traceable may also be a term to consider in modifying this language. Another issue was raised as to what is “sufficient”. Section 1.7.1.1b) needs to be clarified. The word “applicable” is also potentially problematic. The issue of reconstruction of calibrations (i.e., documentation) may be more appropriate in a different section.

It was noted that QS committee is also addressing record keeping and documentation as per ISO 17025 and this topic may be more an element of M2 than M4.

Section 1.7.1.1 e. v.b) redundant with 1.7.1.1.e) ii.

Section 1.7.1.1c) also requires review to account for different analysis (e.g., Toxaphene, PCBs). Section 1.7.1.1.d) redundant with M2.

Section 1.7.1.1.e) i ...except as noted in 1.7.1.1.e) ii. Potentially remove the last sentence from ii. Be mindful of terms utilized throughout this entire section.

Section 1.7.1.1 e) v.3... why 24 hours; too arbitrary. Next workday? Next analytical event? Is reprocessing required? Need to clarify standards language.

Section 1.7.1.1 f) – needs to be rewritten and consider inorganic analyses.

NOTE: comment that entire section on calibration was too “organic-centric”

Section 1.7.1.1. h) – why is a linear dynamic range required if never reporting above the highest standard?

Section 1.7.1.1.k) – needs to be reworked in its entirety. During review, refer EPA new “re-back” standard...revised 500 and 600 series. Will also address ISE issues.

Section 1.7.1.1.L) – “specify” or “allow”; “procedure” versus “method” ...clarify; consider placing in different location within the standard.

Section 1.7.1.1. m) – impact of new PCB congener method? Congener method should specify requirements and may not impact on approach as written for Aroclors.

Section 1.7.1.1. n) – what is a second source? Lot or manufacturer?

As the session reached its allotted time, discussion of sections following 1.7.1.1.n) will commence with the September CEC meeting. Michelle invited all the non-committee members who attended and contributed to today's call to join in the September call if they are available. Any interested party should contact Bob Wyeth for a conference call invitation.

Old/New Business

No new or old business not on the agenda was addressed.

The meeting adjourned at 5:00 PM PT on a unanimous vote following a motion by Calista and a second by Lee. The next meeting of the Chemistry Expert Committee is scheduled September 1, 2021, at 2:00 PM ET

Attachment 1

Chemistry Expert Committee Meeting August 2, 2021; 1:30-5:00 PM PT

Agenda

Michelle Wade, Chair

Tony Francis, Vice-Chair

1. Roll call
2. Approval/modifications of agenda
3. Review of June and July 2021 committee minutes
4. Training reminder/update
5. SIR Review
 - a. Non-Valid SIR
6. Module 4 (EL V1M4) review - Continued
7. Old/New Business