AIHA CONNECT™ 2026 | Conference & Expo for OEHS Professionals | June 1-3 New Orleans, LA

First you will log in to the online system. This login is **the same as** your regular AIHA member login.

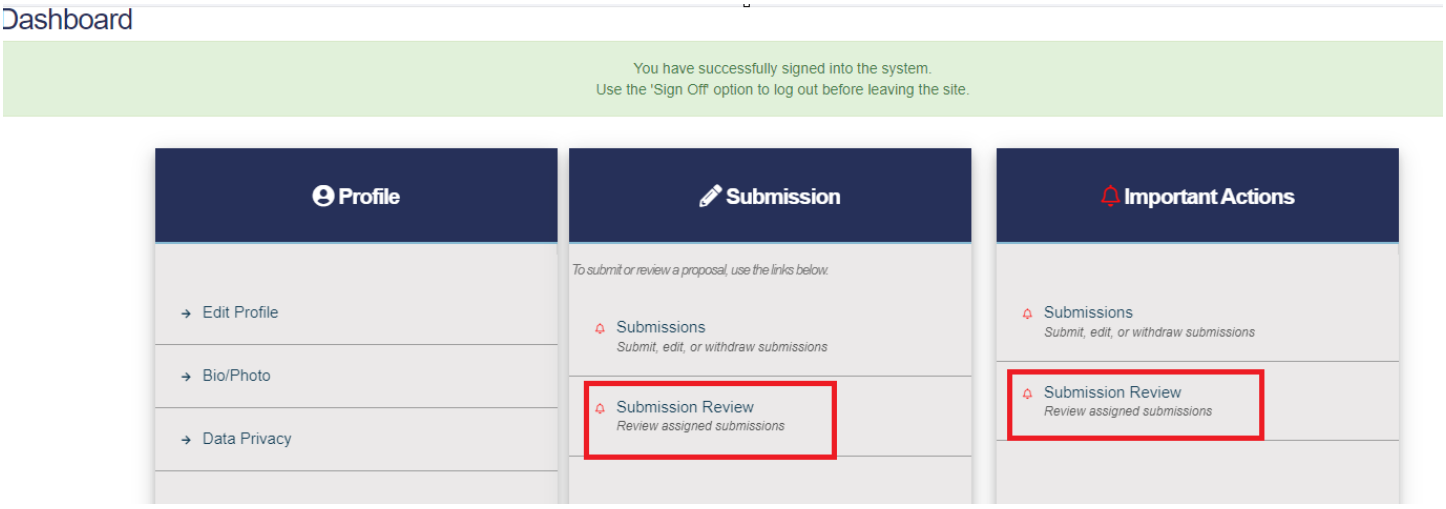
Thank you for volunteering to be an AIHA Connect Technical Reviewer! Your assessment and feedback are valuable, as you are the subject matter expert in your topic area. The Conference Program Committee (CPC) relies on your expertise and scores as they decide which sessions to offer at **AIHA Connect 2026**.

It is important that you review **each** proposal assigned to you. Along with the numerical scoring, the comments you provide are important as well. All reviews are due **Monday, September 29, 2025 (*11:59 ET*)**. This deadline cannot be extended.

This document outlines step-by-step instructions on how to review your assigned proposals using The AIHA Connect online system.

First you will log in to the online system. This login is **the same as** your regular AIHA member login.

Once logged in, you will see your Dashboard. On your Dashboard will be grey blocks with blue headings. The middle block will be titled “Submission” and under that you will see a heading titled “Submission Review.” These headings can be found under the “Important Actions” block as well.



After clicking “Submission Review,” you should see the heading: “My Reviews” and then under “Review Options” you will see a list of all the proposals assigned to you, organized by topic, including the number of proposals in each topic area.

Scroll down to the heading “Reviews to Complete” to complete all abstracts assigned to you. This may include case studies, scientific research presentations, education sessions, and professional posters. Under each submission assigned to you, you will see a link to the “Education Technical Review Questions.” Simply click on that link to open the submission to read and review.

Sampling and Analysis *(14)* : - Review Now
Sensor Technology *(8)* : - Review Now
Standards, Regulations and Legal Issues *(5)* : - Review Now
Total Exposure Health/Total Worker Health® *(11)* : - Review Now

Print All

Reviews To Complete

Category: Aerosols & Airborne Particulates

1014 - Monitoring of Respirable Dust in Taconite Mining using Ultrasonic Personal Aerosol Sampler and NIOSH NMAM 0600
Abstract Type: Scientific Research Presentation
Education Technical Review Questions — Incomplete
Print

1042 - A Comparison of Airborne Respirable Crystalline Silica and Particulate Exposures for Workers Performing Duties both Inside and Outside Operator Enclosures in Mining and Construction
Abstract Type: Professional Poster
Education Technical Review Questions — Incomplete
Print

1180 - Simulating Filter Quality of Nanofiber Filter: Effects of Slip-flow and Implications for Filter Design
Abstract Type: Scientific Research Presentation
Education Technical Review Questions — Incomplete
Print

Once opened, you will see the full submission details; example below:

Dashboard — Diana Kane — Sign Off

Dashboard

1014 - Monitoring of Respirable Dust in Taconite Mining using Ultrasonic Personal Aerosol Sampler and NIOSH NMAM 0600

Abstract Type: Scientific Research Presentation

Description: Inhalation of respirable dust (particles sampled according to the respirable convention with a 50% sampling efficiency at an aerodynamic diameter of 4 µm) leads to a range of cardiovascular and respiratory health issues. The gold-standard for sampling RD from the breathing zone of a worker has been characterized by the National Institute of Occupational Safety and Health (NIOSH) Manual of Analytical Methods (NMAM) 0600 that involves use of a 4-L/min mechanical pump with need of pre- and post-calibration that connects to a cyclone via tubing to sample the RD during the work shift. In this study, we introduce an alternative way of performing the personal sampling using an ultrasonic personal aerosol sampler (UPAS) that is challenged in an occupational setting (a Taconite mine), for the first time.

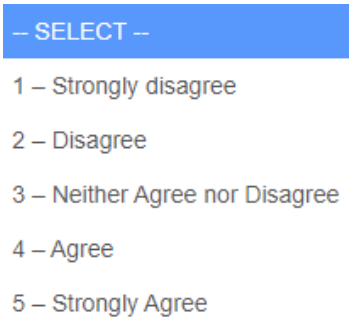
Objective: We investigate the feasibility of using an ultrasonic personal aerosol sampler (UPAS) to replace NIOSH MEthod 0600 for occupational exposure assessment of the respirable dust in an intensely polluted site of a taconite mine.

Methods: The UPAS is a time-integrated monitor that features a novel piezoelectric micropump to drive the air flow at a rate of 2±0.05 L/min and runs silent during operation. In total, we recruited 39 workers from various departments (i.e., crushing, pelleting, milling, and maintenance) of a taconite in the Northern Minnesota. Each worker wore two personal RD samplers: an aluminum cyclone specified in NIOSH method for RD personal sampling on the right -side of the worker's collar and a UPAS clipped to the left-side of the worker's collar. The collocated RD samplers then used for sampling for the entire work shift of 8 hr. Both samplers used 37-mm PTFE filters that were pre- and post-weighed to obtain the integrated RD concentration. Additionally, two area sampling sites per department were used to measure real-time mass concentration of RD using DustTrak (Model 8534, TSI Inc., St. Paul, MN, USA) aerosol monitors. Regression analysis to correlate the measurements obtained using the UPAS and NIOSH NMAM methods was conducted and accuracy of using UPAS as potentially a substitute for NMAM 0600 was investigated using a Bland-Altman plot. Comparisons between the average mass concentrations of RD using both types of personal monitors and nephelometric real-time RD monitors in the area stations are also conducted. Regression analysis for statistical comparison was conducted and the NISOH criteria for potentially replacement of the NIOSH 0600 with use of the UPAS was investigated.

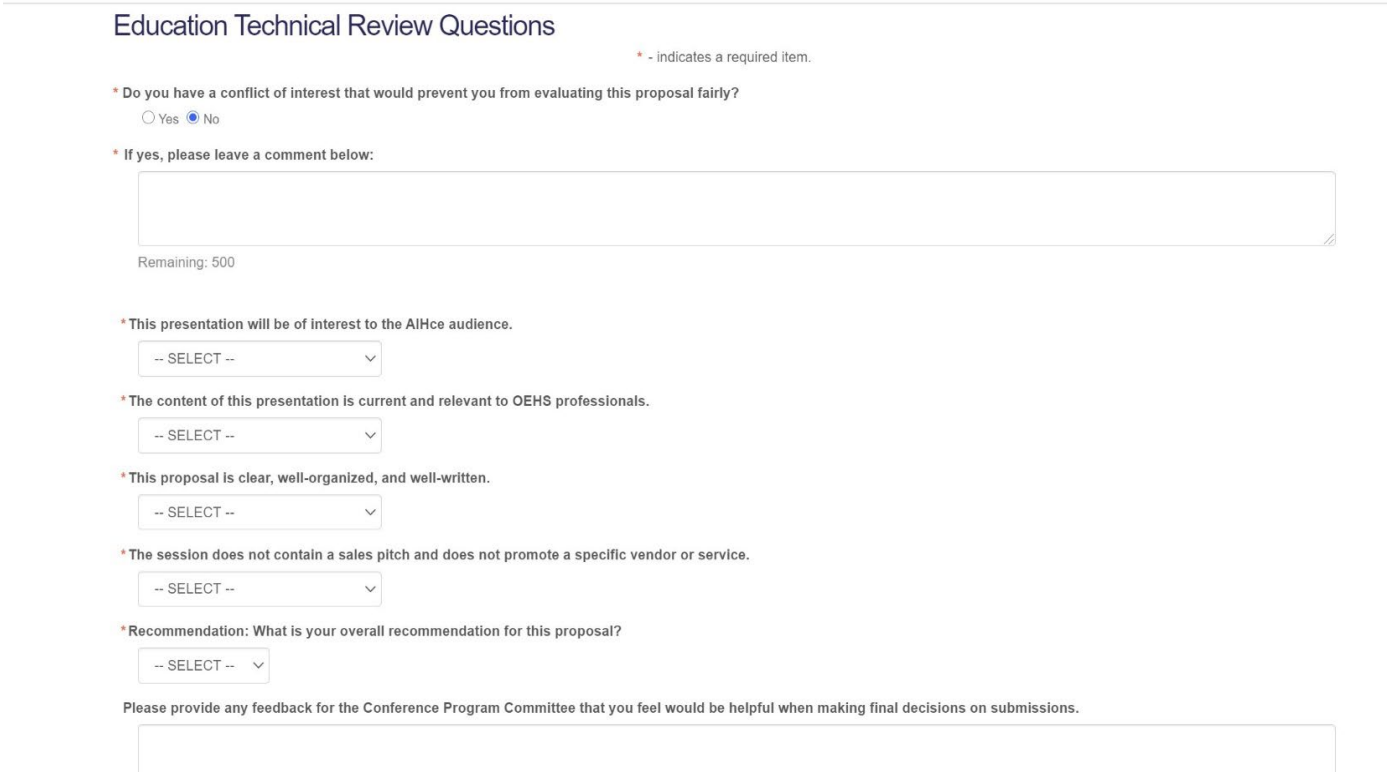
Results / Conclusions: The average RD concentrations based on personal sampling using the UPAS and NIOSH NMAM 0600 were quite similar: 178 and 177 µg/m3. Statistical analysis of the gravimetric analysis of the data obtained from 39 workers indicated a strong linear correlation between RD concentration measured by the UPAS respect to RD concentration measured by the NIOSH NMAM 0600: NIOSH Method 0600 = 1.06 (UPAS) - 9.22 ug/m3, r2 of 0.72, Pearson correlation factor of 0.854. None of the workers was exposed to a respirable dust concentration above the OSHA PEL of 5 mg/m3. A bland-Altman analysis revealed that 72% of the valid UPAS samples agreed within +/-25% of the traditional method mean. In the studied mine site, the impact of job category on correlation of the methods was not statistically significant.

As you scroll to the bottom of the page, you will see the “Education Technical Review Questions” heading.

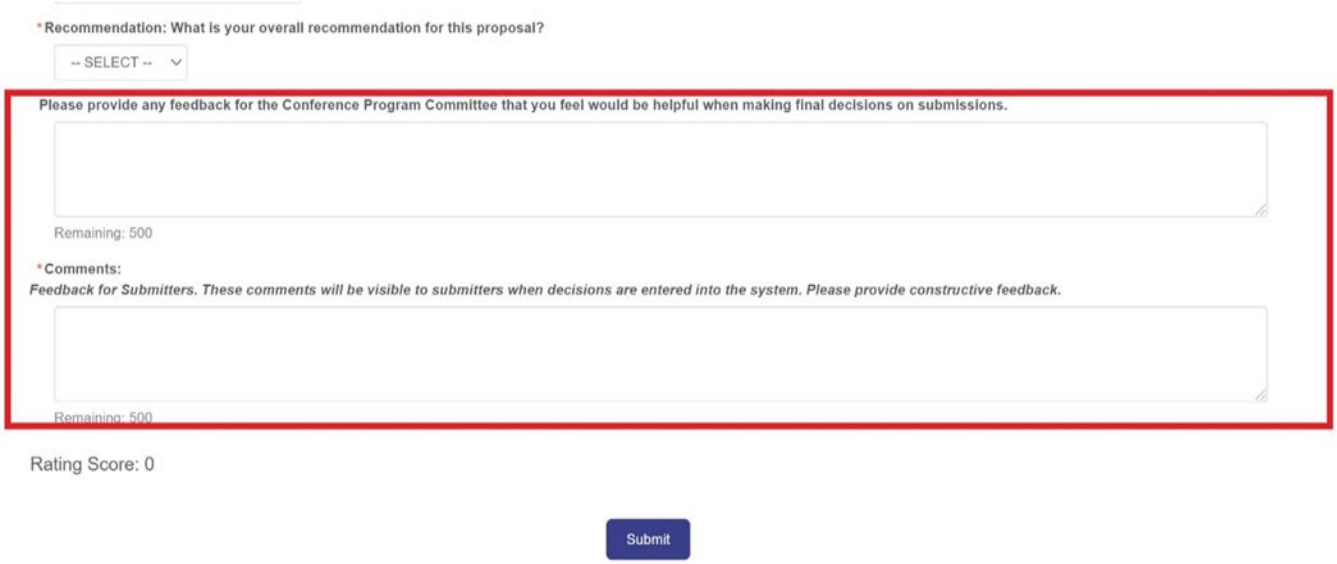
First you must answer the question, “Do you have a conflict of interest that would prevent you from evaluating this proposal.” If you select ‘yes,’ please provide a short reason and then hit the Submit button. This will opt out of the review of that proposal and move you onto the next proposal to review.



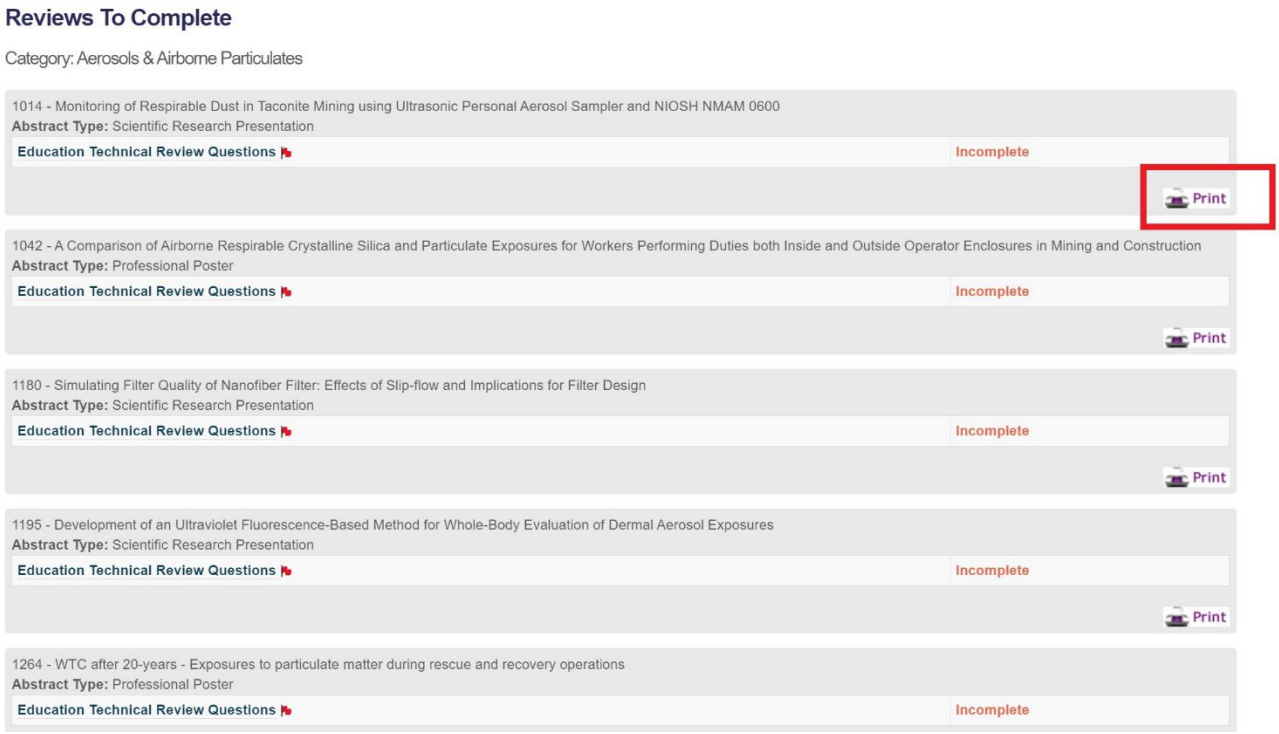
If you do not have a conflict of interest, select “No.” Doing this will enable all the technical review questions to appear. Complete all questions by clicking on the SELECT dropdown list.
All statements with a red asterisk require a response from you.



Note, you will see two comment boxes at the end of the review: one for feedback to the Conference Program Committee (CPC), and one for feedback directly to the proposal submitter. **Comments to the submitter are required**. **The submitter will see these so be sure they are helpful.** Comments to the CPC are optional. You are highly encouraged to provide feedback to both groups. Comments to the CPC will not be seen by the submitter but will help the CPC make final decisions.



When you finish reviewing a proposal be sure to press **Submit** to complete the evaluation of the submission.
If you prefer to print the review documents for each assigned abstract, you can do so by clicking the "print" button, on the main review screen. **Note that you must still enter the answers to the review online.** Final reviews cannot be submitted using printed documents.



As you complete the submissions assigned to you, you will notice on the reviewer homepage that the submission's status will change from "incomplete" to "completed."

Reviews are due **September 29 at 11:59 PM ET.** This deadline cannot be extended.

Thank you again for volunteering and happy reviewing!

If at any time you need assistance with the education technical review process, contact Diana Kane, Manager, Education, dkane@aiha.org, or call 703-846-0753.