



Welcome to the CLU-IN Internet Seminar

FRTR Presents...Per- and Polyfluoroalkyl Substances (PFAS) Emerging Characterization and Remedial Technologies, Session 2

Sponsored by: Federal Remediation Technologies Roundtable (FRTR)

Delivered: Thursday, September 26, 2019, 1:00 PM EDT (7:00 PM GMT)

Instructors:

- Lisa Olsen, U.S. Geological Survey (ldolsen@usgs.gov)
- Jovan Popovic, Ph.D., Naval Facilities Engineering and Expeditionary Warfare Center (jovan.popovic@navy.mil)

Moderators:

- Cindy Frickle, U.S. EPA Technology Innovation and Field Services Division (Frickle.Cynthia@epa.gov)
- Jean Balent, U.S. EPA Technology Innovation and Field Services Division (Balent.jean@epa.gov)

Visit the Clean Up Information Network online at www.cluin.org

Seminar Homepage



CLU-IN | Training & Events | [Passive Treatment of Mining-Influenced Water: From Bench Scale to O&M](#)

Passive Treatment of Mining-Influenced Water: From Bench Scale to O&M

Sponsored by: U.S. EPA Technology Innovation and Field Services Division

Live Webinar: Monday, November 14, 2016, 1:00 PM-3:00 PM EST (18:00-20:00 GMT)

Join the
seminar
online

[Join Webinar](#)

[Register](#)

[Description](#)

[Presenters](#)

[Webinar Slides](#)

[Related Links](#)

[Feedback Form](#)

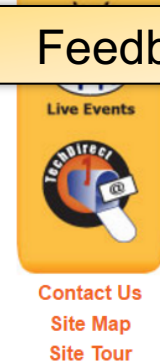
[Tips](#)

Download Slides

Passive treatment refers to processes that do not require frequent human intervention, operation, or maintenance, and typically employ natural construction materials, natural treatment media, and the growth of natural vegetation. Biochemical reactors (BCRs) are a type of passive treatment system that uses microorganisms to remove contaminants from mining-influenced water (MIW). BCRs and other passive systems are effective and lower-maintenance treatment options for mine site cleanups. They provide opportunities to reduce the environmental footprint associated with treatment of MIW.

In recent years, development and implementation of passive systems has increased. However, there's still plenty to learn about their effectiveness. Pilot studies are good ways to study passive treatment and their application scenarios. In this webinar, two case studies will be presented that document design and implementation of BCRs to passively treat MIW – from bench-scale tests to full-scale operation and maintenance, including recovery of iron oxide byproducts for sale.

Case Study 1: Passive Treatment of Metal Mine Drainage at an Abandoned Mine near Lake Shasta



Feedback

[Contact Us](#)
[Site Map](#)
[Site Tour](#)

Housekeeping

- Entire broadcast offered live via Adobe Connect
 - participants can listen and watch as the presenters advance through materials live
 - *Some materials may be available to download in advance, you are **recommended to participate live via the online broadcast***
- Audio is streamed online through by default
 - Use the speaker icon to control online playback
 - If on phones: all lines will be globally muted
- Q&A – use the Q&A pod to privately submit comments, questions and report technical problems
- This event is being recorded and shared via email shortly after live delivery
- Archives accessed for free <http://cluin.org/live/archive/>
- Download/Print webinar certificates by submitting feedback



Webinar Layout

The screenshot displays the Adobe Connect interface for a webinar titled "SBIR/STTR for Environmental Technologies". The interface includes a top toolbar with a "Meeting" tab and a speaker icon. A large central area is labeled "View presentation live online here". To the right, a sidebar contains a "Sponsored by" section with logos for NIH, NSF, and EPA, and a "Related URLs" section with links like "Seminar Homepage" and "Seminar Resources". At the bottom, there is a "Live Closed Captioning" section with a text input field and a "Waiting for Captions" status. Yellow callout boxes with arrows point to specific features: "Control online audio" points to the speaker icon; "Enlarge presentation" points to the maximize button; "Information about Sponsors & Speakers" points to the NIH logo; "Related websites and files" points to the "Seminar Homepage" link; and "Submit private questions, comments or report technical problems" points to the text input field in the Q & A section.

Control online audio

Enlarge presentation

View presentation live online here

Information about Sponsors & Speakers

Related websites and files

Submit private questions, comments or report technical problems

Live Closed Captioning

DISCLAIMER

Notice: This presentation has been provided as part of a U.S. Environmental Protection Agency webinar. The document does not constitute EPA policy. Mention of trade names or commercial products does not constitute endorsement or recommendation for use. Links to non-EPA web sites do not imply any official EPA endorsement of or a responsibility for the opinions, ideas, data, or products presented at those locations or guarantee the validity of the information provided. Links to non-EPA servers are provided solely as a pointer to information that might be useful to EPA staff and the public.





Welcome to the CLU-IN Internet Seminar

FRTR Presents...Per- and Polyfluoroalkyl Substances (PFAS) Emerging Characterization and Remedial Technologies, Session 2

Sponsored by: Federal Remediation Technologies Roundtable (FRTR)

Delivered: Thursday, September 26, 2019, 1:00 PM EDT (7:00 PM GMT)

Instructors:

- Lisa Olsen, U.S. Geological Survey (ldolsen@usgs.gov)
- Jovan Popovic, Ph.D., Naval Facilities Engineering and Expeditionary Warfare Center (jovan.popovic@navy.mil)

Moderators:

- Cindy Frickle, U.S. EPA Technology Innovation and Field Services Division (Frickle.Cynthia@epa.gov)
- Jean Balent, U.S. EPA Technology Innovation and Field Services Division (Balent.jean@epa.gov)

Visit the Clean Up Information Network online at www.cluin.org

Save the Date



Fall 2019 FRTR General Meeting

*Synthesizing Evolving Conceptual Site Models (CSMs)
with Applicable Remediation Technologies*

November 13, 2019

USGS Headquarters in Reston, Virginia
(online participation also available)

For more information about FRTR, visit frtr.gov



PFAS Session 1 Webinar Recording

FRTR Presents...Per- and Polyfluoroalkyl Substances (PFAS)
Emerging Characterization and Remedial Technologies, Session 1

https://clu-in.org/conf/tio/FRTRPresents5_062019/

Delivered: Thursday, June 20, 2019, 1:00 PM EDT (7:00 PM GMT)

Instructors:

- Linda Gaines, Ph.D., U.S. Environmental Protection Agency (gaines.linda@epa.gov)
- Ramona Iery, Ph.D., Naval Facilities Engineering and Expeditionary Warfare Center (Ramona.iery@navy.mil)

Moderators:

- Cindy Frickle, U.S. EPA Technology Innovation and Field Services Division (Frickle.Cynthia@epa.gov)
- Jean Balent, U.S. EPA Technology Innovation and Field Services Division (Balent.jean@epa.gov)

Visit the Clean Up Information Network online at www.cluin.org

Stay Connected

- www.cluin.org
- Free monthly e-newsletter TechDirect, Subscribe at <https://clu-in.org/techdirect/>
- Follow CLU-IN on Facebook, LinkedIn, or Twitter



<https://www.facebook.com/EPACleanUpTech>



<https://twitter.com/#!/EPACleanUpTech>



<http://www.linkedin.com/groups/Clean-Up-Information-Network-CLUIN-4405740>

Resources & Feedback

- To view a complete list of resources including slides for this seminar, please visit the [Additional Resources](#)
- Contact information for presenters and organizers can be found on the [Seminar Homepage](#)
- Please complete the [Feedback Form](#) to help ensure events like this are offered in the future and request a webinar certificate



Thank you for joining us!

Webinar Certificates

- Participation Certificates available after submitting feedback
- Be sure to check box at bottom
 - if you do NOT check this box, NO certificate will be generated
- Webinar certificate will be
 - immediately available to view, print, and save in PDF format
 - emailed to you as a PDF attachment

☐ I certify that I attended this live seminar or viewed the archive in its entirety. Please send a participation **certificate** and feedback confirmation to this address.



Certificate of Participation

This is presented to

Jean Balent

for participation in the CLU-IN seminar

Estimating Environmental Footprints Using SEFA (Spreadsheets for Environmental Footprint Analysis)

Sponsored by: EPA Technology Innovation and Field Services Division

Delivered: October 28, 2014 2 Hours

Certificate generated on February 10, 2015

Additional event information may be found at <http://www.clu-in.org/conf/tlo/SEFA/>

www.clu-in.org

Providing information on environmental cleanup technologies, regulations, and policies. For more information, visit www.clu-in.org.

Resources & Feedback

- To view a complete list of resources including slides for this seminar, please visit the [Additional Resources](#)
- Contact information for presenters and organizers can be found on the [Seminar Homepage](#)
- Please complete the [Feedback Form](#) to help ensure events like this are offered in the future and request a webinar certificate



Thank you for joining us!