



REMPLEX OVERVIEW

RemPlex provides a forum for expert knowledge, technology, and data exchange that facilitates the cost-effective remediation of complex subsurface sites worldwide.

Our expertise in basic and applied remediation science and technology continues to grow through our direct support to the Hanford Site, one of the most complex sites in the world. Our integrated approach to laboratory, field, and predictive site-specific analyses; our adherence to obtaining the necessary understanding of processes for better decision-making; and our partnering with regulatory agencies to generate national and international guidance documents relevant to adaptive site management make us an ideal location for RemPlex.

RemPlex establishes a highly collaborative, interdisciplinary, and multi-institutional forum that supports innovative solutions for other complex contaminated sites, restores valuable natural resources, and protects regional, national, and global water resources and ecosystems.

Learn more on the [RemPlex website](#) or contact us at remplex@pnnl.gov.

RECENT PUBLICATIONS & HIGHLIGHTS

Introducing the Center for the Remediation of Complex Sites

**Webinar: Friday, May 15
12:30 p.m. (PDT) on [Zoom](#)**

The Center for the Remediation of Complex Sites (RemPlex) is a new platform created by the Earth Systems Science Division and Environmental Management market sector at Pacific Northwest National Laboratory. RemPlex couples unique core competencies and expertise with state-of-the-art facilities and physical assets to develop, mature, and deploy advanced technologies to solve complex issues of contaminated subsurface environments.

During the May 15 webinar, Director Dawn Wellman will discuss how RemPlex fosters technical stewardship and advances the R&D needed to translate science and engineering innovation into practical, adaptive, operational solutions to address complex site remediation.

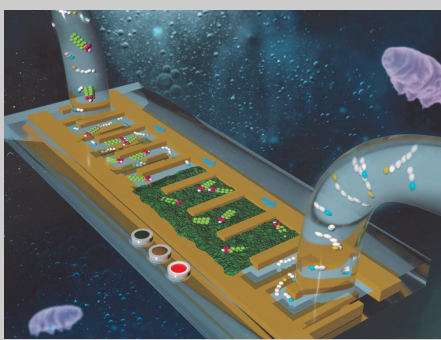


The webinar starts at 12:30 p.m. (PDT). Find it on [Zoom](#), [Meeting ID: 552 377 451](#).

RemPlex provides a highly collaborative, interdisciplinary, and multi-institutional forum led by PNNL - an international leader in complex site remediation - where past and present experiences are leveraged to

- Generate efficient solutions for contaminated sites
- Help restore valuable natural resources
- Protect regional, national, and global water resources and aquatic ecosystems.

RemPlex Webinar Series



[Metal-Organic Framework-Based Microfluidic Impedance Sensor Platform for Ultrasensitive Detection of Perfluorooctanesulfonate](#),

American Chemical Society Applied Materials & Interfaces, February 2020, read more [here](#).

[In situ reductive dissolution to remove Iodine-129 from aquifer sediments](#), *Journal of Environmental Radioactivity*, May 2020, doi:10.1016/j.jenvrad.2020.106182

[Nanostructured MgFe and CoCr Layered Double Hydroxides for Removal and Sequestration of Iodine Anions](#), *Chemical Engineering Journal*, January 2020, doi:10.1016/j.cej.2019.122408

[Environmental Management and Remediation of Radionuclide Contaminated Sites](#), *Science of the Total Environment*, special issue, November 2019, guest editors: Christopher Bagwell, Catherine Yonkofski, Nik Qafoku (PNNL)

[Silver-Functionalized Silica Aerogels and Their Application in the Removal of Iodine from Aqueous Environments](#), *Journal of Hazardous Materials*, November 2019, doi:10.1016/j.jhazmat.2018.04.081

[A review of the behavior of radioiodine in the subsurface at two DOE sites](#), *Science of the Total Environment*, November 2019, doi:10.1016/j.scitotenv.2019.07.146

[Beneath It All](#), PNNL web feature on basic and applied subsurface science, April 2020.

June 18, 2020

"Implications of Uranium Behavior in the Subsurface for Environmental Remediation"

Presented by Jim Szecsody and Hilary Emerson

12:00 to 1:30 p.m. PDT

[Zoom](#), Meeting ID: 923 1347 7385



July 2020

"Interactions of Inorganic Contaminants and Carbonate Precipitates"

Presented by Nik Qafoku and Amanda Lawter

Details to be announced

August 2020

"Evaluation Approaches for Transitioning from Active to Passive Remediation"

Presented by Mike Truex and Katie Muller

Details to be announced

September 2020

"Understanding Environmental Site Conditions: What do we need to know to select and implement effective remedies?"

Presented by Mike Truex

Details to be announced

Additional Learning Opportunities

[Federal Remediation Technologies Roundtable \(FRTR\)](#)

"Using Remedy Implementation Information to Guide Remedy Optimization," presented by PNNL, DOE, & EPA
Webinar video and slides posted April 1, 2020, on the CLU-In site from the November 2019 meeting

August 24-27, 2020

[Consortium of Universities for the Advancement of Hydrologic Science, Inc. \(CUAHSI\)](#) Training Workshop, "Using E4D to Remotely Image the Subsurface: An Open-Source Modeling and Inversion Code," at PNNL in Richland, Wash. Registration deadline is June 10.

October 23-29, 2020

[Clay Minerals Society 57th Annual Meeting](#), "Clays on the Columbia: Bridging Scales and Disciplines," at PNNL in Richland, Wash.

June 27-July 1, 2021

[Battelle Combined Chlorinated and Bioremediation Conference](#), in Portland, Ore.

May 2020

RemPlex + PNNL

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