Title: Field Application of the Stream Functions Assessment and Rapid Index (SFARI)

Abstract: This webinar shows how to perform a stream ecosystem assessment with the Stream Functions Assessment and Rapid Index (SFARI), the rapid tier of the Stream Tiered Assessment Framework (STAF). Building on the introduction to STAF in the first webinar, this session focuses on how the field work is done. We will cover how to prepare for the site visit, how to build a reference expectation for a stream, how to score metrics as lines of evidence, and how to assign and explain function scores. Two case studies, a functioning stream and a degraded stream, show how the same method works in very different settings. The session closes with the SFARI web application, which streamlines working with assessment from site selection through the report. This webinar is the second in a three-part series. The introduction to STAF was held on 5 August, and detailed assessment follows on 22 September.

Presenters:



Leanne Stepchinski, PhD
ORISE Postdoctoral Fellow
Environmental Laboratory
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Houston, TX

Bio: Leanne Stepchinski is an ORISE Postdoctoral Fellow with the U.S. Army Engineer Research Development Center (ERDC) Environmental Laboratory. She holds a B.S. in Geosciences from Trinity University, and a Ph.D. in Geology with a focus in Ecohydrology from the University of South Florida. Her research focuses on wetland and stream hydrology, with applications in stream assessment.



Gabrielle David, PhD
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Bio: Gabrielle David is a research physical scientist specializing in fluvial geomorphology in the Remote Sensing/GIS Center of Expertise at the U.S. Army Engineer Research and Development Center (ERDC) Cold Regions Research and Engineering Laboratory (CRREL). Dr. David leads

applied research projects on stream systems in support of the US Army Corps of Engineers (USACE) Regulatory Program through the ERDC-led Wetland Regulatory Assistance Program (WRAP). Prior to her time at ERDC-CRREL, Dr. David was a visiting assistant professor at Boston College and Bowdoin College. Dr. David received her BS in Environmental Geology from The College of William and Mary and her MS and PhD in Geosciences from Colorado State University.



Garrett Menichino, PhD, PE, CFM
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Bio: Garrett Menichino is a research civil engineer with the U.S. Army Engineer Research and Development Center (ERDC) Environmental Laboratory (EL). His research connects stream hydrology and hydraulics to ecosystem function, with applications in stream assessment, river restoration, and flood risk management. . Dr. Menichino is a licensed professional engineer in Virginia and a Certified Floodplain Manager. He received his BS in Civil Engineering from the University of Virginia and his PhD in Civil Engineering from Virginia Tech.