Synopsis of 10-Year Anniversary SURF White Paper

Paul Favara (paul.favara@jacobs.com) (Jacobs, Gainesville, FL)
Dick Raymond (draymond@terrasystems.com) (Terra Systems, Claymont, DE)
Gerlinde Wolf (gerlinde.wolf@aecom.com) (AECOM, Latham, NY)
Maile Smith (maile.smith@ngem.com) (Northgate Environmental, Oakland, CA)

Background/Objectives. In Summer 2009, the Sustainable Remediation Forum (SURF) released the most comprehensive view of the fledgling sustainable remediation movement with the release of the SURF White Paper. The Remediation Journal dedicated a whole issue to the paper. The Godfather's of Sustainable Remediation, Dr. David Ellis of DuPont and Paul Hadley of California Department of Substance Control, were the lead editors and were supported by over 50 co-authors that contributed to the seven-section, 110-page, document. The paper was thought provoking and ignited debate and conversation around the important topic of sustainable remediation. The 2009 white paper covered a range of topics including:

- Description and Current Status
- Sustainability Concepts and Practices in Remediation
- Impediments and Barriers
- A Vision for Sustainable Remediation
- Applications of Sustainable Principles, Practices, and Metrics to Remediation Projects

Ten years has passed since the publication of this seminal document. Members of SURF thought it was a good time to assess where sustainable remediation has been, where it is today, and where it may be in the future.

Approach/Activities. This 2019 white paper addresses the following topics:

- Revisit our 2009 priorities for sustainable remediation
- Current state of the practice 10 Years Later
- New frontiers in sustainable remediation
- What will the next 10 years look like for sustainable remediation?

Results/Lessons Learned. The presentation highlights the aspirations of sustainable remediation 2009, what we have been able to achieve in 10 years of practice, and a current overview of how sustainable remediation is applied in 2019. While much progress has been made in the practice of sustainable remediation, the consensus view of the paper is there are still more frontiers to pursue to improve the sustainability of remediation projects. Some of these new frontiers include better education of new graduates and training for current professionals; more integration of societal, economic and ecosystem considerations; simplification of tools; and valuation to help better convey the positive and negative attributes of a project. The paper also identified potential future global and geopolitical events that could alter the arc of sustainable remediation implementation.