

The South Carolina Association of Environmental Professionals invites you to attend!

Date: **Thursday, September 17th, 2026**

Time: **6:30 pm (social) 7:00 pm (meeting start time) – Please RSVP**

Where: **SC Power Team Office – 1201 Main Street, Suite 1710,
Columbia, SC 29201 or Zoom ([link below and must register to access](#))**

Cost: **No charge for paid members or first-time attendees**

Speaker: **Randy St. Germain, Cofounder, Dakota Technologies, Inc.**

Topic: **“High Resolution Site Characterization (HRSC) of Non-Aqueous Phase Liquids”**

Light and dense non-aqueous phase liquids (LNAPLs and DNAPLs) — such as refined petroleum, chlorinated solvents, creosote, and coal tar — are potent sources of dissolved-phase groundwater contamination. Characterizing the nature and extent of releases of these liquids is a common task for many environmental professionals because proper characterization of the NAPL's subsurface architecture is a cornerstone of successful risk assessment and remediation design. Unfortunately, NAPL bodies typically distribute themselves in a highly heterogeneous fashion. That creates a “whack-a-mole” lack of repeatability between mobilizations — or even between two subsequent measurements at the same spot. Investigators are therefore forced to use high-resolution site characterization (HRSC) to see through the fog of that chaotic distribution. HRSC lets investigators generate, and then actually appreciate, their NAPL body's highly complex architecture. Laser-induced fluorescence (LIF) was designed to log NAPLs continuously in the subsurface, in real time. Daily production of 250 to 450 feet is common, making LIF a cost-effective alternative to traditional soil sampling. The resulting data produce an exceptionally accurate, densely populated conceptual site model (CSM) of the NAPL body in just days — often in a single mobilization. That stands in stark contrast to traditional sampling and analysis, which often takes multiple mobilizations and spans months or even years to deliver a far less detailed CSM.

Randy St Germain of [Dakota Technologies, Inc.](#) cofounded the company in 1993 to develop state-of-the-art laser-induced fluorescence products and services for high-resolution site characterization of LNAPLs and DNAPLs. Dakota's Ultra-Violet Optical Screening Tool (UVOST®), Tar-specific Green Optical Screening Tool (TarGOST®) and DyeLIF™ have contributed greatly to understanding how non-aqueous phase liquids distribute themselves in the subsurface. Randy has assisted in the interpretation of fluorescence data from well over one thousand LNAPL and DNAPL release sites, totaling over 112 miles of fluorescence logging data (~19,000 logs). Approximately five hundred of those were creosote or coal tar sites.

Zoom Link: https://us02web.zoom.us/join/zoom/register/d0quTx35TdiFW_WsWCOWMA
(this is just to register; a separate link to Zoom room and access code will be sent on the night of the presentation)



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❖ Who are we?

- SCAEP was founded in 1992 as a non-profit organization with the following objectives in mind:
- Promote harmony, cooperation, and mutual understanding among environmental consultants, regulatory agencies, educational professionals, business professionals, etc.
- Allow members of the various disciplines represented, both public and private, the opportunity to interact at a social level
- Encourage the transfer of technical information
- Provide a vehicle for continuing technical education
- Foster the highest standards of Professional Ethics within the environmental field
- Combat unfair practices within the environmental field

❖ Why Join or Sponsor SCAEP?

- PE/PG Credit Hours!
- Networking with professionals
- Food and drinks (some “fortified”) at each meeting
- A forum to present new research and interesting topics (PGs get 2 credit hours for presenting!)
- Two memberships when you sponsor SCAEP
- We always have fun and the whole group is pretty much AWESOME 😊
- Membership fees are only \$35/calendar year and \$15 for students