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# Soil Remediation Workshop

## Overview

IPEC's mission is to increase the competitiveness of the domestic petroleum industry through a reduction in the costs of compliance with U.S. environmental regulations:

- 1) By developing cost effective technologies to meet the challenges of environmental regulations and *promote* the competitiveness of the domestic petroleum industry.
- 2) By providing tools and technology transfer to *empower* independent oil and gas producers to solve their own problems.

## Description

The Soil Remediation Workshop was developed by Dr. Kerry L. Sublette, Director of IPEC, in order to help fulfill IPEC's mission for technology transfer.

Workshop attendees will learn how to cost effectively remediate oil and brine spills themselves using hands-on tools and teaching materials developed by Dr. Sublette. Attendees will also learn how to evaluate vendor claims for adding microbes, using surfactants, etc.

The workshop is geared toward oil and gas operators and state regulators, but landowners are welcome as well. Landowners may need to educate reluctant operators with leases on their land or learn how they can restore damaged sites themselves.

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A productive time frame of approximately 4 hours is all that is needed for this presentation. Judging by the accolades we have received, this is time well spent. Workbooks with all the PowerPoint slides used in the presentation plus laminated guidelines are disseminated to the attendees for their follow-up use in the field, referral, and reinforcement of the ideas.

In addition to the workbook and laminated guidelines, attendees also receive **free-of-charge** an IPEC Soil Salt Analysis Kit, IPEC Chloride Analysis in Water Kit, Bioremediation Video, and a Cost-effective Strategies Video. Any of these materials may be ordered as needed from IPEC's Outreach Manager, Sheila Kumpe or on the IPEC website at <http://ipec.utulsa.edu>.

## Agenda

- I. Introductions and Workshop Objectives
- II. Bioremediation of Crude Oil Spills
- III. Bioremediation of Crude Oil + Brine Spills
- IV. Remediation of Brine Spills
- V. Summary; Questions and Comments
- VI. Adjourn

## Presenter Biography

**G. Phil Spurlin** is President of BEACON Environmental Assistance Corporation, an environmental consulting company founded in 1991 to provide services to the oil and gas industry. Since 1994, BEACON has been the primary environmental consultant to the Oklahoma Energy Resources Board. In addition to work with the OERB, BEACON provides services to a number of oil and gas exploration and production companies and has worked in 14 states.

After obtaining a degree in geology from the University of Oklahoma, Spurlin entered the oil and gas industry in 1973 with SOHIO Petroleum Company. Since that time, Spurlin has worked as staff geologist at Enserch Exploration, Cities Service Oil Company, and with independent oil and gas producers. He began consulting in 1980 as a petroleum geologist in exploration and production, with both large and small clients. At the request of numerous clients, he entered the field of environmental geology to address growing interest in environmental regulatory compliance and issues associated with field operations. In 1990, Spurlin undertook additional graduate studies in geology at Oklahoma State University where he concentrated on impacted soils. His experience in oil and gas operations and environmental issues give him a unique view applicable to today's challenges in the oil and gas industry.

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