



CONSULTANTS' SEMINAR

1995

Sponsored by:  
Utah Department of Environmental Quality  
Division of Environmental Response & Remediation  
Leaking Underground Storage Tank Section  
In cooperation with:  
U.S. Environmental Protection Agency  
Region VIII

April 19-20



## Acknowledgements

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Consultants Seminar '95, is sponsored by the U.S. Environmental Protection Agency (EPA), Region VIII, and the Utah Department of Environmental Quality, Division of Environmental Response and Remediation (DERR). Many people both within and outside the above listed organizations have devoted their time and efforts in creating this consultants seminar. The DERR would like to recognize those individuals and organizations who, without their invaluable assistance, this seminar would not have been possible.

**R. Ryan Dupont**, Associate Professor  
Utah State University  
Logan, Utah

**Kevin Pope**, Technical Services  
Geoprobe Systems  
Reedley, California

**Steven McNeely**, U.S. EPA  
Office of Underground Storage Tanks  
Washington, D.C.

**Andrew Strutynsky**, P.E.  
STRATIGRAPHICS, Inc.  
Glen Ellyn, Illinois

**Sheldon Nelson**  
Chevron Research & Technology, Co.  
Richmond, California

**Suzane Stephenson**  
U.S. EPA, Region VIII  
Denver, Colorado

### Disclaimer

Utah State Regulations R311-211, Corrective Action Clean-up Standards Policy, and the Federal Regulations as shown in 40 CFR Part 280, and incorporated by reference as R311-202-1, set forth the requirements of reporting, controlling, characterizing and remediating releases from underground storage tank systems. The information contained in this document as well as that obtained in the seminar, does not relieve any person or authority from complying with the requirements of the above mentioned regulations, or other laws as they apply. This document is for informational purposes only, consistent with the intent of Consultants Seminar '95. The DERR does not endorse any environmental products, systems or technologies that are found in the content of seminar speeches or in the written document.

# Leaking Underground Storage Tank Consultants' Seminar '95

## Wednesday, April 19, 1995:

7:30 - 8:00 Registration and continental breakfast, Exhibits

### Opening Session

8:00 - 8:10 Welcome and Introduction -- Bryan Whitaker, Branch Manager, Underground Storage Tank (UST)

8:10 - 8:20 Current Focus of the Utah Leaking Underground Storage Tank (LUST) Program -- Kent P. Gray, Executive Secretary, UST

8:20 - 8:45 National Perspective on the Leaking Underground Storage Tank Program -- Steve McNeely, EPA, OUST

### LUST/UST Requirements

8:45 - 9:00 Release Discovery, Reporting, Confirmation & Investigation; UST Closure Overview - Janet Keller, UST Section

9:00 - 9:15 Consultant Certification -- Paul Zahn, Manager, LUST Section

9:15 - 9:45 Utah Reporting and Remediation Schedules -- Evan Sullivan, LUST Section

9:45 - 10:00 Question and Answers -- UST/LUST Staff

10:00 - 10:20 BREAK, Exhibits

### Accelerated Site Investigation Technologies

10:20 - 10:30 Introduction -- Pat Sheehan, LUST Section

10:30 - 11:15 Cone Penetrometer -- Guest Speaker (Andrew Strutymsky, P.E., STRATIGRAPHICS, Inc.)

11:15 - 12:00 Geoprobe -- Guest Speaker (Kevin Pope, Geoprobe Systems)

12:00 - 12:20 Questions and Answers -- Guest Speakers and LUST Staff

12:20 - 2:00 LUNCH -- Keynote Speaker: Dianne Nielson, Director, Utah Department of Environmental Quality, or Brent Bradford, Deputy Director, Utah Department of Environmental Quality\*: *DEQ Customer Focus/Overview of the New LUST Program Process*

### Accelerated Site Investigation Technologies (Continued)

2:00 - 2:30 Portable Laboratory -- Guest Speaker (Kevin Pope, Geoprobe Systems)

### Risk Evaluation/Risk Based Corrective Action

2:30 - 2:45 "How Clean is Clean?" and LUST Risk Assessment -- Scott Manzano, Manager, LUST Section

2:45 - 3:15 Risk Based Corrective Action (RBCA) -- The new ASTM Standard - John Connor, Groundwater Services, Inc.

3:15 - 3:45 BREAK, Exhibits

3:45 - 4:30 RBCA - Workshop Exercises -- John Connor, Groundwater Services, Inc.

4:30 - 5:00 Questions and Answers -- Guest Speakers and LUST Staff

5:00 - 7:00 Dinner - on your own

7:00 - 9:00 Optional - Discussion of Topics of Concerns/Interest (Subjects to be announced at end of First Day's Sessions)

## Thursday, April 20, 1995

7:30 - 8:30 Continental Breakfast, Exhibits

### LUST Program Improvements

8:30 - 9:00 Program Improvement Initiatives and Results - Kate Johnson, LUST Section

### Petroleum Storage Tank Fund

9:00 - 9:30 PST Program -- Shelly Quick, LUST Section

9:30 - 10:00 PST Claims Process -- Shelly Quick, LUST Section

10:00 - 10:30 Questions and Answers -- LUST Staff

10:30 - 11:00 BREAK, Exhibits

### Corrective Action

11:00 - 11:15 Corrective Action Introduction -- Scott Manzano, Manager, LUST Section

11:15 - 11:45 Utah's Corrective Action Process -- Dale Urban, LUST Section

11:45 - 1:30 LUNCH (Buffet), Exhibits

### Ex-Situ Remedial Technologies

1:30 - 2:00 "Dig and Haul", Volatilization, Bio Piles, Land Farming -- Jim Martin, LUST Section

2:00 - 2:15 Questions and Answers -- LUST Staff

### In-Situ Remedial Technologies

2:15 - 2:45 Air Sparging -- Guest Speaker (Sheldon Nelson, Chevron)

2:45 - 3:15 Soil Vapor Extraction -- Guest Speaker (Sheldon Nelson, Chevron)

3:15 - 3:45 BREAK, Exhibits

3:45 - 4:15 Bioventing -- Guest Speaker (Ryan Dupont, USU)

4:15 - 4:45 Natural Attenuation -- Guest Speaker (Ryan Dupont, USU)

4:45 - 5:00 Questions and Answers -- Guest Speakers and LUST Staff