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Leak Detection Methods for Underground Storage Tanks

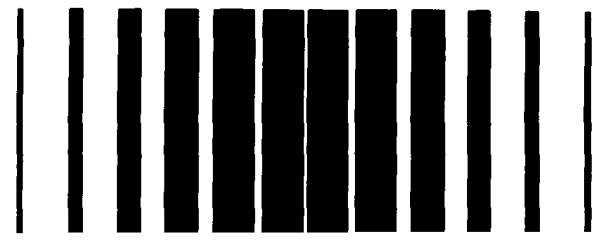
September 12-13, 1988
Cathedral Hill Hotel
San Francisco, CA

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Holiday
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September 1988
Downtown
a, GA

November 29-30, 1988
Ramada Hotel O'Hare
Rosemont, IL

UPDATED



United States
Environmental Protection
Agency

Center for Environmental Research
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Cincinnati, OH 45268

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Speakers:
Joseph W. Maresca, Jr., Vista Research
James W. Starr, Vista Research
Robert D. Roach, Vista Research
Gwen Eklund, Radian Corp.
Reinhard Hanselka, AIDI, Inc.
Donald Lundy, G & M Spill and Tank Management, Inc.
Richard L. Johnson, Oregon Graduate Center
Philip Durgin, EMSL-LV
John Worlund, EMSL-LV



JACA Corp.
550 Pinetown Road
Ft. Washington, PA 19034

Place
Postage
Here

Attn: Ursula S. Thomas

Updated

The purpose of this seminar series is to summarize, for a technical audience, the results of EPA research on leak detection methods for underground storage tanks (USTs). The invited audience includes: manufacturers of leak detection equipment and instruments, environmental consultants and others who must choose which tests to use, and contractors who perform leak detection tests. The material presented will not be an overview or a primer on detection. The content of the material will be technical in nature and only those with previous knowledge of leak detection equipment should attend.

The timing of this seminar series is designed to follow the completion of several important EPA studies on a variety of leak detection methods. Thus, the attendees will be able to hear directly from the researchers about the study results and will be able to ask questions. The presentations will describe the current performance and limitations of each leak detection method and will recommend ways to improve performance.

The two-day agenda is divided into four parts. The first part provides an overview of the various leak detection methods available for USTs. The second part covers all methods for internal tank leak detection. The second part concludes with a presentation on optimizing the choice among internal tank methods for certain situations. The third part covers external leak detection methods. The last part of the seminar covers the integration of internal and external tank leak detection methods.

Registration and Hotel Information

There is no fee for attending these seminars. Since registration will be limited to the space available, the attached registration card should be completed and mailed as soon as possible. A letter confirming your preregistration at the seminar of your choice will be sent to you. If you have previously registered for this seminar, there is no need to resubmit a registration form. If you wish to cancel your previous registration, call Ursula S. Thomas at JACA Corp., Fort Washington, PA (215) 643-5466.

Room reservations are to be made by you directly with the hotel and should be made early. The reserved block of rooms will only be assured up to three or four weeks before the date of the seminar; after that, rooms will be assigned by the hotel on a space-available basis. Be sure to mention that you are attending this EPA seminar so that you will qualify for special room rates. For additional information, call Ursula S. Thomas at JACA Corp., Fort Washington, PA (215) 643-5466.

Seminar Locations and Dates

September 12-13, 1988

Cathedral Hill Hotel
Van Ness at Geary
San Francisco, CA 94109
(415) 776-8200
Government/group rate: \$75 single/\$75 double

September 26-27, 1988

Holiday Inn
260 Goddard Blvd.
King of Prussia, PA 19406
(215) 265-7500
Group room rate: \$70 single/\$70 double
Government rate: \$68 single/\$68 double

October 27-28, 1988

Holiday Inn-Downtown
175 Piedmont Ave., N.E.
Atlanta, GA 30303
(404) 659-2727
Government/group rate: \$41 single/\$41 double

November 29-30, 1988

Ramada Hotel O'Hare
6600 N. Mannheim
Rosemont, IL 60018
(312) 827-5131
Government/group rate: \$72 single/\$82 double

Revised Seminar Program

First Day

9:00 a.m. Welcome

9:05 a.m. Purpose

Part I: UST Leak Detection Overview

9:15 a.m. Overview of Leak Detection Methods for USTs

9:45 a.m. Questions

10:00 a.m. Coffee Break

Part II: Internal Tank Leak Detection Methods

10:15 a.m. Performance of UST Leak Detection Methods

10:45 a.m. Evaluation Methodology
—General Approach
—Accuracy of Performance

11:15 a.m. Volumetric Tank Testing:
UST Test Apparatus
Experimental Results

11:45 a.m. Question

12:00 p.m. Lunch

1:00 p.m. Volumetric Tank Testing:
Manufacturer Evaluation Results

2:00 p.m. Line Leak Detection:
Pressure Measurement Systems — Overview of Pressure Detection Systems

2:30 p.m. Questions

2:45 p.m. Coffee Break

3:00 p.m. Automatic Tank Gauging Systems—
Inventory Reconciliation with
Volumetric Tests

3:45 p.m. Selection of an In-Tank Leak Detection Option
—Performance Considerations
—Operational Considerations
—Cost Considerations

4:30 p.m. Discussion and Questions

Second Day

Part III—External Tank Leak Detection

8:30 a.m. Background Information

8:45 a.m. Site Assessment/Risk Assessment

9:15 a.m. Groundwater Monitoring—
Theory & Application

9:45 a.m. Questions

10:00 a.m. Coffee Break

10:15 a.m. Vapor Monitoring — Theory
—Physical Models
—Computer Models

10:45 a.m. Hardware — Vapor and Groundwater Questions

11:30 a.m. Lunch

1:00 p.m. Vapor Monitoring—Application

1:40 p.m. Setting Alarm Levels and Response to Alarms

2:00 p.m. Questions

2:15 p.m. Coffee Break

Part IV—Integrating Internal and External Methods

2:30 p.m. Deciding on a Monitoring Strategy

3:15 p.m. Panel Discussion with Representatives from:
—EPA Edison Lab
—EPA Las Vegas Lab
—API
—State

4:15 p.m. Adjourn

Revised Seminar Registration Form Leak Detection Methods for Underground Storage Tanks

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Rosemont, IL

Name _____

Title _____

Organization _____

Address _____

City/State/Zip Code _____

Phone (_____) _____