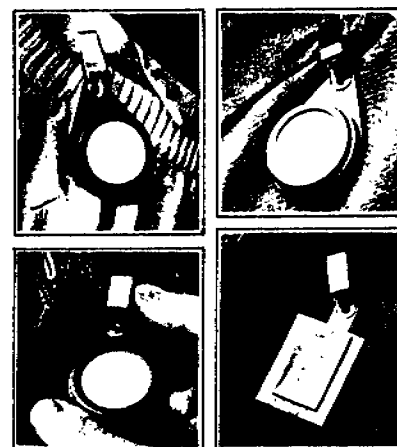


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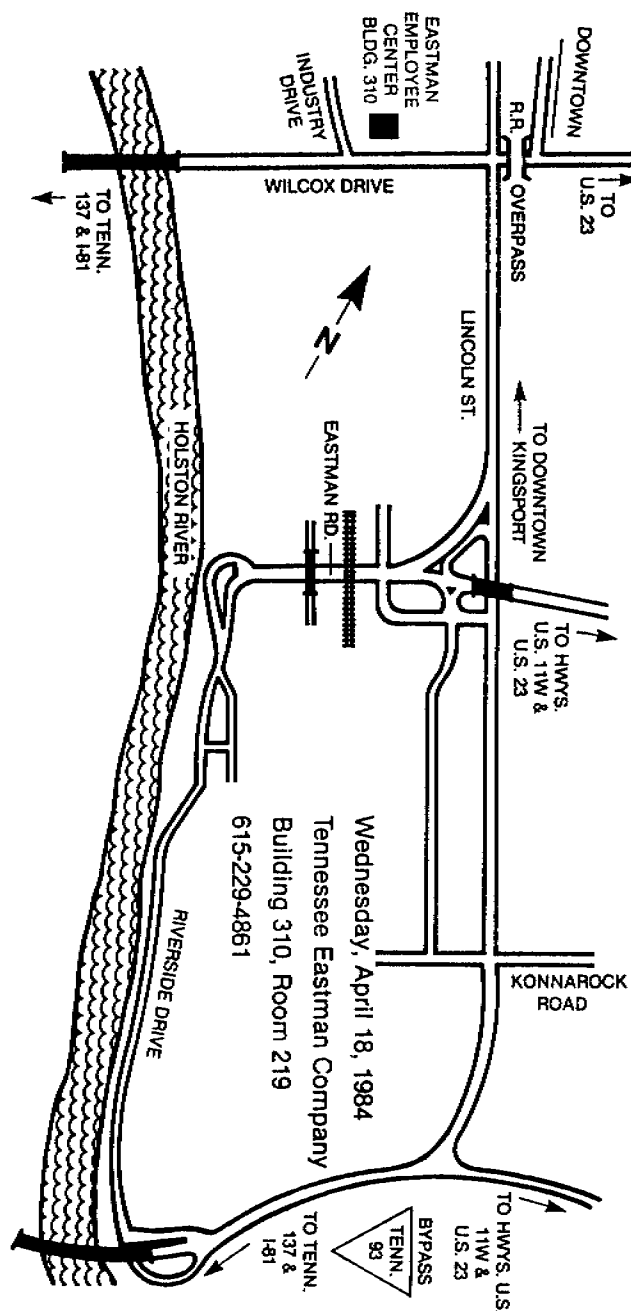
Field Applications of Diffusional Air Sampling



A one day ABIH certified course emphasizing field experience in measuring atmospheres with diffusion sampling devices.

This course is sponsored by 3M Company Occupational Health and Safety Products Division and offers participants one ABIH maintenance credit.

3M 000022



Course Description

This course will emphasize field experience in measuring atmospheres with diffusional sampling devices. Included also will be a brief review of applicable theories and an overview of the ever-increasing body of technical information available to support the use of diffusional samplers. Participants will receive a course notebook containing course notes, third party references, bibliographies, recommended protocols and 3M technical papers.

THIS NEW CERTIFIED COURSE OFFERS ALL PARTICIPANTS ONE ABIH MAINTENANCE CREDIT.

Lunch and coffee breaks will be provided.

The Instructors

Dr. Paul E. Olson, PhD
3M Company; St. Paul, MN

James A. Kvikstad
3M Company; St. Paul, MN

Haskell Mullins
3M Company; St. Paul, MN

Nicholas R. Susuki
3M Company; St. Paul, MN

"Field Applications of Diffusional Air Sampling"

Program

- 7:30-
8:15 Registration
- 8:30 I. Introduction to diffusional air sampling
- A. Theory
 - B. Sampling rate parameter (K effect)
 - C. Sampling rate validations
 - D. Sources of error

Coffee Break

- II. Organic Vapor sampling
- A. Methodology comparison
 - B. Capacity parameter (W effect)
 - C. NIOSH/UBTL studies

Organic Vapor monitor field studies

- III. A. Oil Company field study using #3520 Organic Vapor Monitor
- 1. Reference: charcoal tubes
 - 2. Four organic mixtures

- 11:30 Lunch

IV. Analytical Methodologies

- A. Organic Vapors — recoveries
- B. Ethylene Oxide —
 - 1. Sensitivity factor vs working curve
 - 2. Detection limits

V. Transient or fluctuating concentrations

Coffee Break

VI. Sampling Protocols

- A. Laboratory (NIOSH/ASTM)
- B. Field (3M Field Method)

- 4:00 VII. Product Overview/Closing Comments
- A. Organic Vapors
 - B. Mercury
 - C. Ethylene Oxide
 - D. Formaldehyde

Advance Registration Form

Diffusion Monitoring Seminar

Wednesday, April 18, 1984

☐ Tennessee Eastman Company
Kingsport, TN

Name _____

Title/Position _____

Company _____

Address _____

_____ Zip _____

Telephone _____

Deadline for advance registration is ten (10) days prior to seminar date. Fee includes course materials, lunch and coffee breaks.

Registration fee is fully refundable ten (10) days before seminar date.

Course fees: (make check or money order payable to 3M Company)

\$40.00 — First individual from your organization

\$25.00 — Additional persons from your organization

\$15.00 — Student registration
Identification required

\$50.00 — Late registration at the door (space available)

Send completed registration form with check or money order to:

3M Company
Occupational Health & Safety
Products Division Dept. F
P.O. Box 33984
St. Paul, MN 55144

3M 000022A