



GROUNDWATER RESOURCES ASSOCIATION
OF CALIFORNIA

The Eighth Symposium in GRA's Series on Groundwater Contaminants

**“SUBSURFACE VAPOR INTRUSION TO INDOOR AIR:
WHEN IS SOIL AND GROUNDWATER CONTAMINATION AN INDOOR AIR ISSUE?”**

September 30, 2003 – San Jose, California

October 1, 2003 – Long Beach, California

- 7:30 - 8:20 am Registration and Continental Breakfast
- 8:20 - 8:30 am *Welcome and Program Overview*
Brian Lewis, Symposium Chair and GRA Director
- Moderator: Brian Lewis, Chief, Geological Services Unit,
Department of Toxic Substances Control, Cal/EPA***
- 8:30 - 9:30 am *Overview of Why Indoor Air is an Issue: The California Perspective*
Roger Brewer, Regional Water Quality Control Board
David Berry, Department of Toxic Substances Control, Cal/EPA
- 9:30 - 10:00 am *Case Study: A Facility in Mountain View, California*
John Moody, US EPA, Region 9
- 10:00 - 10:30 am Break in Exhibit Area**
- 10:30 - 12:00 pm *The Basis for our Understanding of this Pathway:
Fundamentals, Anecdotal Evidence, Empirical Analysis, and Models*
Paul Johnson, Arizona State University
- 12:00 - 1:00 pm Lunch**
- 1:00 – 1:45 pm *Collection of Data for Input Parameters From a Regulator's Approach:
Groundwater, Soil, Soil Gas, and Physical Parameters*
Dan Gallagher, Dept. of Toxic Substances Control, Cal/EPA
- 1:45 - 2:30 pm *Empirical Experience Gathering Data*
Todd McAlary, GeoSyntec Consultants

- 2:30 - 3:00 pm *Background Contamination and its Impact on the Assessment of Vapor Intrusion*
Robbie Ettinger, Shell Global Solutions (USA) Inc.
- 3:00 - 3:30 pm Break in Exhibit Area**
- 3:30 – 4:00 pm *Engineering Controls*
Ron Mosley, US EPA ORD
- 4:00 – 4:30 pm *Hypothetical Case Study*
Eric Nichols, LFR Levine Fricke
- 4:30 – 5:00 pm *Panel Discussion*
David Berry, Department of Toxic Substances Control, Cal/EPA
Roger Brewer, Regional Water Quality Control Board
Robbie Ettinger, Shell Global Solutions (USA) Inc.
Dan Gallagher, Department of Toxic Substances Control, Cal/EPA
Paul Johnson, Arizona State University
Todd McAlary, GeoSyntec Consultants
John Moody, US EPA, Region 9
Ron Mosley, US EPA ORD
Eric Nichols, LFR Levine-Fricke
- 5:00 – 6:00 pm Reception in Exhibit Hall**