Announcing A Professional Meeting On

Naturally Occurring Asbestos (NOA) Hazards

Focused on the Needs of the Geologist / Environmental Professional in the Field Dealing With NOA Issues

April 29, 2005 (8AM - 5:20PM)

Fairmont Hotel, San Jose, CA

Geological Society of America, Cordilleran Section Meeting

(CIH's Earn 2.0 ABIH Certification Maintenance Points For Attending)

Chairperson: Mark Bailey, CA Registered Geologist President, Asbestos TEM Laboratories

18 Speakers Including Representatives of:

Government & Regulatory Agencies

US Environmental Protection Agency (EPA) California Dept. of Toxics Substances Control (DTSC) California Air Resources Board (ARB) El Dorado County Air Quality Management District (EDAQMD) Bay Area Air Quality Management District (BAAQMD) California Div. of Occupational Safety & Health (Cal/OSHA) California Geological Survey (CGS) US Geological Survey (USGS)

Environmental Industry

Asbestos TEM Laboratories Ecology and Environment GeoCon Consultants GeoMatrix Consultants Hazard Management Services Lowney Associates ToxiChem Management Systems U.C. Berkeley Extension, Asbestos & Lead Training Program Youngdahl Consulting Group Downey Brand Attorneys

For more information contact:



Mark Bailey Asbestos TEM Laboratories, Inc. Ph. 510-528-0108, Fax 510-528-0109 E-Mail: Mark@asbestostemlabs.com NOA Web Site: www.NOAExperts.com or

Register Today at the Geological Society of America Website http://www.geosociety.org/sectdiv/cord/05cdmtg.htm

LIST OF NOA PRESENTATIONS & AUTHORS GSA MEETING SESSION, APRIL 29, 2005, SAN JOSE, CA

Naturally Occurring Asbestos Hazards: Geology, Regulatory Issues, and Methods of Identification and Assessment

- 1. OVERVIEW OF ASBESTOS USES, HEALTH EFFECTS, AND REGULATIONS. **T. Wangerin (U.C. Berkeley** Extension, Asbestos & Lead Training Program / Hazard Management Services)
- 2. LIBBY, MONTANA: OVERVIEW OF ASBESTOS EXPOSURES AND HEALTH EFFECTS. A. Miller (US Environmental Protection Agency [USEPA])
- 3. GEOLOGY OF NATURALLY OCCURRING ASBESTOS IN CALIFORNIA. J. P. Clinkenbeard (Calif. Geological Survey [CGS]), , R. K. Churchill (CGS)
- 4. ACTIVITY-BASED AIR SAMPLING FOR NATURALLY-OCCURRING ASBESTOS EXPOSURES IN EL DORADO COUNTY, CA, J. Johnson (USEPA), D. Meer, A. Den, G. Hiatt, C. Weinstein, D. Hodge, K. Ladd, H. Edwards
- 5. ASSESSMENT OF HUMAN EXPOSURE TO NATURALLY OCCURRING (UNPROCESSED) ASBESTOS AT THE CLEAR CREEK MANAGEMENT AREA, CALIFORNIA. L. Suer (USEPA), A. Den, J. Lane, D. Stralka, B. Brass, T. Moore, S. Ross, C. Ziegler, R. Braun
- 6. CALIFORNIA'S ASBESTOS AIRBORNE TOXIC CONTROL MEASURES. R. Boyd (Calif. Air Resources Board [ARB])
- 7. APPLYING LOCAL AND STATE AIR QUALITY REGULATIONS CONCERNING NATURALLY OCCURRING ASBESTOS (NOA) AT THE DISTRICT LEVEL IN EL DORADO COUNTY: AN AIR POLLUTION CONTROL OFFICERS PERSPECTIVE. **M. McTaggart (El Dorado Air Quality Management District)**
- 8. IMPLEMENTATION OF THE ASBESTOS AIRBORNE TOXIC CONTROL MEASURE FOR CONSTRUCTION AND GRADING OPERATIONS IN THE BAY AREA. V. A. Douglas (Bay Area Air Quality District)
- 9. STATE OVERSIGHT OF NATURALLY OCCURRING ASBESTOS AT PUBLIC SCHOOL SITES. M. Malinowski (Calif. Dept. of Toxic Substances Control [DTSC])
- 10. APPLYING CAL/OSHA REGULATIONS TO OUTDOOR WORK SITES WITH NATURALLY OCCURRING ASBESTOS, **B. Krycia (Cal/OSHA)**
- 11. GEOLOGIC SITE ASSESSMENT FOR NATURALLY OCCURRING ASBESTOS. D. W. Bieber (GeoCon Consultants)
- 12. NATURALLY OCCURRING ASBESTOS ASSESSMENT IN THE COPPER HILL VOLCANICS OF CALIFORNIA. D. C. Sederquist (Youngdahl Consulting Group)
- 13. USE OF AVIRIS TO ASSIST MAPPING OF AREAS IN CALIFORNIA THAT MAY CONTAIN NATURALLY G. A. Swayze (US Geological Survey[USGS]), C. T. Higgins (CGS), J. P. Clinkenbeard (CGS), R. F. Kokaly, R. N. Clark, G. P. Meeker, S. J. Sutley
- 14. WHAT DO POSITIVE NOA LAB RESULTS MEAN (PART I): CONSIDERATIONS WHEN ORDERING AND INTER-PRETING POLARIZED LIGHT (PLM) AND PHASE CONTRAST MICROSCOPY (PCM) ANALYSES OF ROCK/SOIL AND AIR SAMPLES. **M. Bailey (Asbestos TEM Laboratories)**
- 15. WHAT DO POSITIVE NOA LAB RESULTS MEAN (PART II): CONSIDERATIONS WHEN ORDERING AND INTER-PRETING TRANSMISSION ELECTRON MICROSCOPY (TEM) ANALYSES OF ROCK/SOIL AND AIR SAMPLES. **M. Bailey (Asbestos TEM Laboratories), M. Hu, P. Burmistrova**
- 16. IMPLICATIONS OF NATURALLY OCCURRING ASBESTOS DURING CONSTRUCTION. M. B. Bloes (GeoMatrix Consultants), B. J. Thompson
- 17.ASBESTOS AIR SAMPLING ON NATURALLY OCCURRING ASBESTOS PROJECTS. R. Beall (Hazard Management Services)
- 18 RISK ESTIMATION AND AIR SAMPLING AT NOA SITES. D. W. Hernandez (ToxiChem Management Systems)
- 19. MITIGATION PRACTICES FOR NOA. T. F. McCloskey (Lowney Associates)
- 20. SUMMARY OF POTENTIAL RISKS OF LIABILITY ASSOCIATED WITH NATURALLY OCCURRING ASBESTOS. N. R. Gleason (Downey Brand Attorneys)



For more information contact:

Mark Bailey, Asbestos TEM Laboratories, Inc. Ph. 510-528-0108, Fax 510-528-0109, E-Mail: Mark@asbestostemlabs.com



To Register go to: www.geosociety.org/sectdiv/cord/05cdmtg.htm

Joint Meeting

Cordilleran Section, GSA (101st Annual Meeting) 🔓

Pacific Section, AAPG (80th Annual Meeting)

29 April - 1 May 2005 • Fairmont Hotel • San José, California

THEME: Bay, Basins, Basement, and Beyond

REGISTRATION

Standaïd Registration Deadline: March 28, 2005

Cancellation Deadline: April 4, 2005

Registration Fees	Standard		On-Site	
	FULL MEETING	ONE DAY	FULL MEETING	ONE DAY
Professional Member	\$125	\$85	\$160	\$100
Professional Nonmember	\$150	\$100	\$200	\$125
Student Member	\$45	\$30	\$60	\$40
Student Nonmember	\$55	\$35	\$70	\$45
K–12 Professional	\$40	N/A	\$50	N/A
Guest or Spouse	\$40	N/A	\$50	N/A
Field trip or Short Course only	\$25	N/A	\$30	N/A

PLEASE REGISTER ONLINE. Register early to qualify for lower fees. You may also download and mail or fax in the paper registration form if you prefer. Should you need assistance, contact GSA Sales and Service, 1-888-443-4472, (303) 357-1000 option 3.

On-Site Registration Schedule			
Thursday, April 28	4–8 p.m.		
Friday, April 29	7:30 a.m4:30 p.m.		
Saturday, April 30	7:30 a.m4:30 p.m.		
Sunday, May 1	7:30 a.m.–noon		

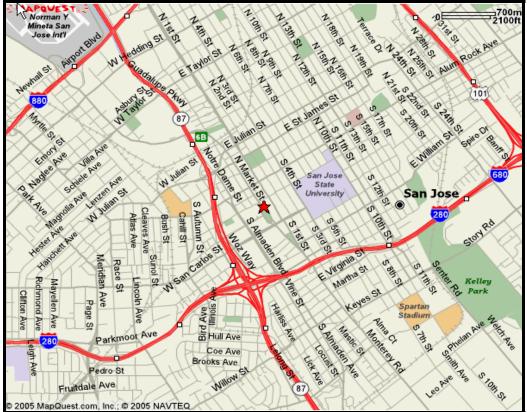


MAP TO GSA CORDILLERAN SECTION MEETING

NATURALLY OCCCURRING ASBESTOS HAZARDS SESSION APRIL 29, 2005

Fairmont Hotel - 170 S Market St - San Jose, CA 95113 US Hotel Phone: 408-998-1900





CONSTRUCTION MANAGERS, PLANNERS AND GEOLOGICAL SITE ASSESSORS: <u>WHAT YOU NEED TO KNOW ABOUT</u> NATURALLY OCCURRING ASBESTOS (NOA)

Asbestos TEM Laboratories, Inc. Expert geologists & mineralogists Performing NOA analysis

Recent changes in asbestos regulations governing the disruption of soil and rock during construction activities have the potential to affect virtually any construction project in California because:

- NOA is known to occur in 44 of the 58 counties in California
- The California Air Resources Board has lowered the acceptable limit of asbestos in rock/soil from 5.0% to 0.25%.
- Mitigation and monitoring measures may be required to safeguard construction workers and the public when NOA is present.

Protect yourself by choosing the best qualified laboratory to analyze your NOA rock/soil & air samples. Asbestos TEM Labs is uniquely qualified to perform NOA analysis for the following reasons:

- CA DOHS ELAP Certified & NIST/NVLAP Accredited
- Highly skilled geologist/mineralogist asbestos analysts
- Extensive experience with NOA analysis and issues: President is a California Registered Geologist & expert consultant on NOA
- Selected by CAL ARB and EPA to perform soil/rock & air sample analysis of NOA at Oak Ridge High School, El Dorado County, CA
- Complete in-house crushing/pulverizing sample prep facility



In-House Crushing & Pulverizing Equipment



Expert Geologist/Mineralogist Analysts



NOA-Containing Serpentine Rock

ASBESTOS LAB CAPABILITIES

- POLARIZED LIGHT MICROSCOPY
- PHASE CONTRAST MICROSCOPY
 - TRANSMISSION ELECTRON
 MICROSCOPY

SOIL/ROCK ANALYTICAL METHODS

- CAL ARB 435
- TEM QUANTITATIVE BULK
 - EPA 600/R-93/116
 - OTHER MISC.



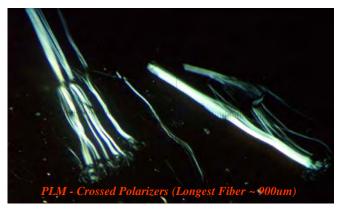
Asbestos TEM Laboratories, Inc. 1409 Fifth Street Berkeley, CA 94710 Ph. 510-528-0108 Fax 510-528-0109 www.asbestostemlabs.com

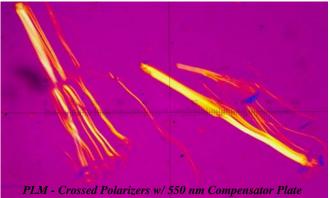
CALL TODAY TO GET A QUOTE ON OUR ASBESTOS TESTING SERVICES



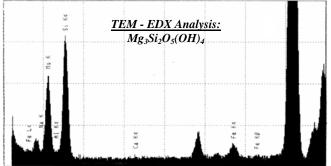
COMMON NOA MINERALS IN CALIFORNIA

CHRYSOTILE SERPENTINE ASBESTOS



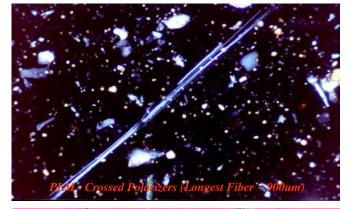


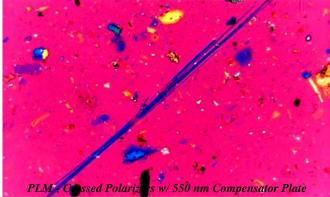


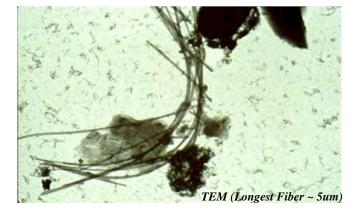


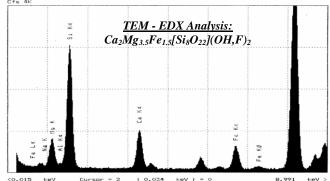
0.015

TREMOLITE / ACTINOLITE AMPHIBOLE ASBESTOS









1409 Fifth Street, Berkeley, CA 94710 Ph. 510-528-0108 www.asbestostemlabs.com Fax 510-528-0109