

FUTURE FOCUS

Future Environment Designs, Inc.

TABLE OF CONTENTS:

- FED Project News on Page 2
- The Jan. - Apr. Training Schedule on Page 3
- FYI on Page 4
- Safety Suzy on Page 4

THE CRYSTAL BALL FUTURE OF ASBESTOS

Happy New Year everyone and welcome to our first issue of 2015. We hope your holidays were merry and happy, and that you held on while 2014 seemed to end so quickly. We are looking forward to the new year and hopefully spending many more years together with you.

As we move forward, we thought it might be interesting to speculate where the industry might be 10-40 years from now. So let's get the crystal ball out! In volume 15 of Future Focus, we discussed the issue of **asbestos in current building materials**. Two things would have to change for this issue to change. The Rotterdam Convention would have to list chrysotile asbestos as a hazardous material and the United States (US) would have to truly ban asbestos. Our crystal ball tells us that only the US banning asbestos is likely of these two things. That means asbestos in building materials will continue to be an issue.

Asbestos exposures currently are short-term & intermittent primarily occurring during maintenance activities or remediation of buildings containing asbestos. We see this continuing into the future, with a slight reduction as more people become trained and knowledgeable about the lack of an asbestos ban.

According to the National Institute of Occupational Safety and Health's

(NIOSH) document "Asbestos Fibers & Other Elongate Mineral Particles: State of the Science & Roadmap for Research" the trends in **asbestos diseases** in the US, which we only track asbestosis (since 1968) and malignant mesothelioma (since 1999), have plateaued since 2000 (at nearly 1,500 per year) for asbestosis. As for mesothelioma at the time of the report and during the period for which records were available the increase in



**By Angelo Garcia, III
Founder,
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the number of deaths was 9%. Looking forward we see mesothelioma eventually plateauing and with asbestosis eventually decreasing only when the US bans asbestos. Probably the most interesting changes will occur in the field of **diagnostic testing for malignant mesothelioma**. The use of immunochemical markers, and the development of biomarkers to be assessed with noninvasive procedures, these will allow

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But I am learning that perfection isn't what matters. In fact, it's the very thing that can destroy you if you let it.

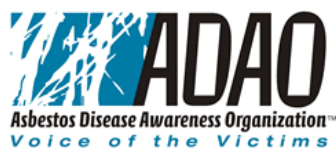
~ Emily Giffin

Special points of interest:

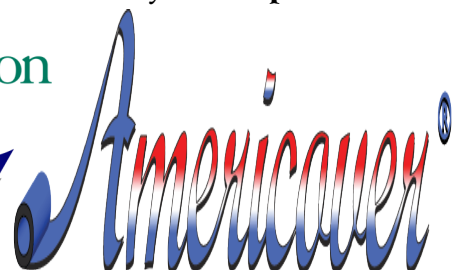
- We accept MasterCard, Visa, and Discover.
- Call us at (800) 969-3888 for your Safety Equipment & Supply needs.
- We are located at 6800 Jericho Turnpike, Suite 120W, Syosset, New York 11791.
- Visit our website at www.futureenv.com

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FUTURE ENVIRONMENT DESIGNS PROJECT NEWS

RAIL TERMINAL REQUIRES OSHA COMPLIANCE ASSISTANCE

Future Environment Designs wrote corporate safety, hazard communication, lockout/tagout (LOTO), fall protection, personal protective equipment (PPE), bloodborne pathogen, emergency and fire safety programs for a Rail Terminal facility in Brookhaven. Our service included an initial safety audit to establish a baseline. It also included training the staff on fall protection, OSHA 10-hour general industry safety, PPE, LOTO, and requirements of the hazard communication programs.

OSHA 10 HOUR CONSTRUCTION SAFETY TRAINING COURSE FOR AN HVAC INSURANCE GROUP ON LONG ISLAND & HARRISON

Future Environment Designs customized the Occupational Safety and Health Administration's (OSHA) 10 hour construction safety training course to meet the requirements of the NYSDOL 220-h regulation. We customized the course to provide the workers with safety information they would need on the job. The topics were chosen based on the OSHA regulations the employer/employees were required to comply with.

INDOOR AIR QUALITY ASSESSMENT OF COMMUNITY CENTER IN EAST MEADOW

Future Environment Design's Certified Indoor Environmental Consultant assessed the quality of the indoor air of several areas and offices in a community center. The assessment included HVAC assessment, and indoor air quality sampling for carbon dioxide, carbon monoxide, temperature, dew point, relative humidity, volatile organic compounds, particulates, and spore trap sampling.

Reminders

- ◆ Training classes being held in Syosset are located at 6800 Jericho Turnpike, Suite 120W, Syosset, New York .
- ◆ Visit our **website** at www.futureenv.com for the **updated training calendar for 2015**. Click on Asbestos Training **More>** for the calendar.
- ◆ You can access our **blog** at <http://futureenv.blogspot.com> or you can access it or sign-up for the blog at our website under the **newsletter tab**.
- ◆ **Advertise your business or job opening with FED in its course manual advertising**. Visit our website under the resource tab and click on "**for information on becoming a training advertiser**" for our brochure.
- ◆ Come find us online at **Facebook, Linked-In (New York State Asbestos Group), and Twitter**. We update our posts regularly on what we are doing, Find out what we are up to next.

THE CRYSTAL BALL FUTURE OF ASBESTOS, continued.

(Continued from page 1)
early stage therapeutic interventions that might slow the progression of the disease or be curative. In addition, the increased use of digital radiography and computerized tomography, especially high-resolution computed tomography could be added to the diagnostic tools to determine asbestos diseases. Finally, in the future we see the industry dealing with asbestos and **elongated mineral particles (EMP)**. The NIOSH document we mentioned earlier discusses a lot of the problems with minerals & mineral morphology, amphibole nomenclature, and problems with minerals having variations in elemental compositions and growth forms (called habits). Some minerals that would meet the EMP definition are asbestiform winchite and richterite; asbestiform amphibole fluoro-edenite; fibrous antigorite; zeolites erionite and mordenite; fibrous talc; and clay materials sepiolite and palygorskite;

along with individual particles or fragments of the nonasbestiform analogs of asbestos minerals. Along these lines it is interesting to note that NIOSH's recommended exposure limit (REL) is for airborne asbestos fibers and related EMPs is 0.1 countable EMP from one or more covered minerals per cubic centimeter, averaged over 100 minutes. Where a countable EMP is any fiber or fragment of a mineral longer than 5 micron with a minimum aspect ratio of 3:1 when viewed microscopically with NIOSH Analytical Method 7400 ("A" rules) or its equivalent and a covered mineral is any mineral having the crystal structure and elemental composition of one of the asbestos varieties or one of their nonasbestiform analogs. So in a sense we are already counting these EMPs when using the current air sampling analysis method. So we'll see how our crystal ball did in another 10 years or so.



FUTURE ENVIRONMENT DESIGN'S SERVICES & TRAINING COURSES

*Visit our website for our current schedule at
www.futureenvironmentdesigns.com*

Asbestos Training Courses (Initial & Refreshers):

NYS/NYC Handler	NYS/NYC Supervisor	NYS Project Air Sampling Technician
NYS Project Monitor	NYS Inspector/NYC Investigator	
NYS Management Planner	NYS Project Designer	
NYS Operations & Maintenance	Asbestos Awareness (OSHA Class IV)	

OSHA Authorized Safety Courses:

10-Hour Construction Safety Course	30-Hour Construction Safety Course
10-Hour General Industry Safety Course	30-Hour General Industry Safety Course

FED's Respirator Management or Self-Management Services:

Respiratory Protection Program Administrator
 Respirator User Quantitative Respirator Fit Testing
 OSHA Respiratory Protection Medical Evaluation

OSHA Confined Space:

Entrant/Attendant Entry Supervisor

OSHA Hazardous Waste Operations & Emergency Response Training:

Emergency Response/General Hazard Awareness (2 days)
 Emergency Response Operations/Basic Safety Training (3 days)
 Emergency Response Technician/Hazardous Waste Worker (5 days)
 Emergency Response Incident Commander/Hazardous Waste Supervisor (1 day)

OSHA Required Safety Training:

Hazard Communication	Scaffold User	Scaffold User Competent Person
Lead Construction Safety	PPE	Lockout/Tagout
Bloodborne Pathogens	Excavation	

Mold Training:

Remediation Investigation & Sampling Current Information

EPA/HUD Lead:

Lead-Safe Work Practices	Renovation, Repair, & Painting (RRP) Course	
Supervisor	Inspector	Risk Assessor

Indoor Air Quality (IAQ) & OSHA Compliance Services:

Asbestos, Mold and IAQ air testing	IAQ assessments & surveys
OSHA compliance services, including program writing and safety audits/inspections	
Health and Safety Plans (HASPs)	Asbestos Project Designs & Inspections
Asbestos O&M Programs	Industrial Hygiene Services Safety management



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Keeping Employees Safe

**We're on the web
www.futureenv.com**

FOR YOUR INFORMATION



Safety Suzy Says:

As of January 1, 2015 all employers must report all work-related fatalities within 8 hours or within 24 hours

for all work-related inpatient hospitalizations, amputations, or losses of an eye. Report an incident to OSHA by calling 1-800-321-OSHA (6742) or your nearest OSHA area office, during normal business hours.

Posts on Future Environment Design's Blog? (<http://futureenv.blogspot.com>)

11/25/14 - Personal Protective Equipment (PPE), One Size Does Not Fit All

7/25/14 - NYSDOH Announces The Imminent Availability of Vermiculite Analysis

2/4/14 - Protecting Yourself During Restoration or Renovation Projects

1/26/14 - OSHA 300A Posting Required by February 1. Changes Coming for Recordkeeping.

1/15/14 - Settlement Agreement Regarding Mold in NYC Public Housing

Featured Posts on the New York State Asbestos Group (Our Group on Linked-In)

Infractions for Gaspare Santoro & Savo Brother Developers.

Asbestos Surveys & Removal in Oneida Floodzone

NYSDOL Interpretation Provides Some Relief for Owner's with Asbestos Containing Joint Compound

ELAP Communication to Laboratories regarding New Vermiculite method & Updates of Old Method