

# REGISTER NOW!

Please join the **LV-AIHA** and **LV-ASSE** on **Wednesday, November 8, 2006** for a half day event featuring

**Greg Olson from TSI**

**Presenting on**

**Nanoparticle Monitoring in Occupational Environments –  
Comparing and Contrasting Measurement Metrics**

There is increasing commercial development of nano-scale materials, structures, and devices that take full advantage of the unique properties affecting physical, chemical, and biological behaviors of these nano-scale materials. The occupational health risks associated the manufacturing and use of nanoparticles are not clearly understood, and no government regulations or workplace exposure limits exist for exposure to nanoparticles.

Nano-scale materials behave differently than larger particles and exposure to nanomaterials may occur through inhalation, dermal contact, or ingestion. Traditional workplace exposure aerosol limits are based on mass per unit volume (e.g.,  $\text{mg}/\text{m}^3$  or  $\mu\text{m}/\text{m}^3$ ). A growing number of experts contend that number concentration, size distribution, and surface area should be measured instead of mass because nanoparticles occur in much greater numbers, have far more surface area, and have negligible mass in comparison to larger particles.

The presentation provides a brief overview of the following:

- Nanotechnology
- Traditional industrial hygiene aerosol measurements
- Nanoparticle definitions
- Compares and contrasts measurement metrics
- Current work and issues in nanotechnology and occupational health

**IN ADDITION:**

**Walt Loftus from 3M Occupational Health & Environmental  
Safety Division will speak on**

**Hexavalent Chromium**

With recent Regulation changes and concerns with metal particles, the goal is to provide important and pertinent technical and product choice information

• **CONTENT**

– Welding Safety, Electroplating Safety, Heavy Duty Paints and Coatings Safety

**\* New Hexavalent Chromium Standard**  
**Hexavalent Chromium: What is it & where does it come from?**  
**Exposure Limits: New Standard**  
**Effective Dates for Compliance**  
**Respiratory Protection Requirements**  
**Exposure Assessments**  
**Respiratory Selection**

**AND**

**John B. Glass Jr., CIH, CSP, CHMM from Hillmann  
Environmental Group, LLC will present**

### **OCCUPATIONAL SILICA EXPOSURE**

Despite recent educational and enforcement efforts, the risks of silica exposure are not fully understood or appreciated. Silica is the second most common element of the earth's crust and is a large part of the composition of sand, rock and mineral ores. The reported cases of silicosis continues to decline however OSHA has found that over exposure continues to be prevalent amongst workers in professions linked with a high-risk for silica exposure. These occupations include mining, construction, foundry activities and steel rolling. With over one million workers in the United States exposed to crystalline silica, the regulatory agencies continue to review regulations and the affected industries remain committed to enhance their medical surveillance programs.

John Glass will discuss the issues relating to Occupational Silica Exposure by addressing the following issues:

- The Health Effects of Over Exposure to Silica
- Sources for Exposure
- Statistics
- Silica SEP Program
- Current PELs and TLVs and the Proposed Industry Revisions
- Engineering Controls

**This event will be held at the**

**Parkland Restaurant**  
**2702 Walbert Street**  
**Allentown, PA 18104**

**Register by filling out the attached registration form and sending the form,  
along with payment, **prior to October 27, 2006.****



American Industrial Hygiene Association

Lehigh Valley Section

AND



**Lehigh Valley Chapter**

*Bethlehem, PA*

American Society of Safety Engineers  
*"Your Safety, Our Profession"*



Lehigh Valley Chapter

**Half Day Conference**  
**Wednesday, November 8, 2006**  
**7:30 AM to Noon**

**Parkland Restaurant**  
**2702 Walbert Street**  
**Allentown, PA 18104**

**COST**

Members of LV-AIHA/LV-ASSE: **\$ 25**

Non-Members: **\$50**

Students enrolled in an EHS degree program: **\$10**

**AGENDA:**

<b>7:30 AM</b>	<b>Registration</b>
<b>8:00 AM</b>	<b>Welcome</b>
<b>8:15 AM</b>	<b>Nanotechnology</b>
<b>9:15 AM</b>	<b>Break</b>
<b>9:20 AM</b>	<b>Silica in Construction</b>
<b>10:20 AM</b>	<b>Break</b>
<b>10:30 AM</b>	<b>Hexavalent Chromium</b>
<b>NOON</b>	<b>Program Concludes</b>

**LV-AIHA/LV-ASSE**  
**Half Day Conference**  
**November 8, 2006**  
**REGISTRATION FORM**

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

**COST:**

**\*\*\*If you are a member, please indicate which organization you are a member.**

**\$25** LV-AIHA/LV-ASSE Members

**\$50** Non Members of LV-AIHA/LV-ASSE (includes 2006 LV-AIHA dues)

**\$10** Students enrolled in an EHS degree program

Registration includes continental breakfast.

Please send form and payment by **Friday, October 27<sup>th</sup>, 2006** to:

LV-AIHA or LV-ASSE  
c/o Jennifer Brown  
2924 Fornance Road  
Bethlehem, PA 18020

Application will be made to the ABIH for ½ CM point. In addition, the 3 hour event will be worth 0.25 COC points.

**QUESTIONS???**

Please contact LV-AIHA Local Section President Elect/LV-ASSE Program Chair – Jennifer Brown at [jbrown@hillmanngroup.com](mailto:jbrown@hillmanngroup.com)