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Title: Practical Experiences With the Use of Water as a Dust Control Measure for Scabbling and Jackhammering Concrete

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Session RT 233
Number:

Session Title: Progress in Controlling Respirable Crystalline Silica Exposures in Construction.

Session Type: Roundtable

Session Start: 5/25/2005 1:00:00 PM

Session End: 5/25/2005 5:00:00 PM

Location: Hilton Anaheim Pacific B

Description: "Sponsored by the AIHA Engineering Committee

Excessive exposures to crystalline silica can occur during the construction and renovation of roads and buildings. These exposures result from the disruption of surfaces or structures containing crystalline silica. Crystalline silica is a component of sand, concrete, brick, block, mortar, and some paints used to coat steel structures. Uncontrolled abrading, cutting, drilling and breaking of materials containing crystalline silica can result in exposures that exceed exposure limits for crystalline silica by as much as a factor of 100. Practical control measures provide significant exposure reductions. Effective control measures use water, high velocity low volume ventilation, or substitution of materials or processes. These control measures have different capabilities and limitations. Recent field trials have evaluated the capabilities and limitations of control measures, resulting in some surprises. For example, recent efforts to use alternatives to sand during abrasive blasting have not eliminated the potential for silica exposure because some steel structures are coated with paints that contain crystalline silica. However, water can effectively suppress dust generation in some situations, and local exhaust ventilation can reduce exposures."

Presentations: ☐ William A. Heitbrink -- [Arranger](#)

☐ Steven Guffey -- [Moderator](#)

☐ Yvette Brittain, -- [Monitor](#)

☐ Steve Martin -- [Monitor](#)

☐ Jason Capriotti -- [Overview of Exposure Problem and Hazard Control Approaches in Construction](#)

☐ Scott Collingwood -- [Dust Control During Mortar Removal Using Vacuum Cleaners and Hoods](#)

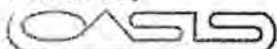
☐ Gerry Croteau -- [Controlled and Field Assessment of LEV for Concrete Grinding](#)

- ☐ Susan Shepherd -- Using Local Exhaust Ventilation to Control Dust While Drilling and Chipping Concrete
- ☐ Bryan Beamer -- Evaluation of Ventilation and Misting Controls to Reduce Exposure to Respirable Crystalline Silica for Brick Cutting
- ☐ Alan Echt -- Practical Experiences With the Use of Water as a Dust Control Measure for Scabbling and Jackhammering Concrete
- ☐ John Meeker -- Evaluation of Worker Exposures When Using Abrasive Blasting Substitutes
- ☐ William A. Heitbrink -- Wet Abrasive Blasting – An Alternative Approach.
- ☐ Pam Susi -- Practical Barriers and Obstacles to Use of Engineering Controls in Construction.
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