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Title: Hierarchy of Controls and Inherently Safe Design

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Session RT 219**Number:****Session Title:** Above and Beyond Ventilation: A Closer Look at Elimination, Substitution and Other Controls**Session Type:** Roundtable**Session Start:** 5/24/2005 2:00:00 PM**Session End:** 5/24/2005 4:30:00 PM**Location:** Hilton Anaheim California A**Description:** Sponsored by the AIHA Engineering Committee

Industrial hygienists have become very proficient in the implementation of ventilation, administrative, and personal protective equipment controls. When considering and designing exposure controls, however, industrial hygienists sometimes skip over the top of the hierarchy of controls, perhaps because of the perception that these types of controls are too difficult or too expensive to implement. Elimination and substitution deserve a closer look, not only because they increase the level of protection afforded to the worker and the work environment, but also because they can better control environmental pollution concerns that may be overlooked with the use of ventilation or personal protective equipment. In many cases, elimination or substitution controls are also less expensive and lower maintenance alternatives to other types of controls over the long term. A number of examples and case studies will be presented that demonstrate the thought process involved in designing controls that more effectively eliminate the exposure hazard to the worker, the workplace, and the environment.

- Presentations:**
- Jennifer Sahmel -- [Arranger](#)
 - Jennifer Sahmel -- [Moderator](#)
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 - Tim Sheehan -- [Monitor](#)
 - Michael G. Gressel -- [Hierarchy of Controls and Inherently Safe Design](#)
 - David Leith -- [Method to Evaluate the Dustiness of Pharmaceutical Powders](#)
 - Michael J. Ellenbecker -- [Process Change as a Primary Engineering Control: Chlorinated Cleaning Solvent Case Studies](#)
 - G. Edward Burroughs -- [Alternative Dust Control Techniques to Minimize the Necessity for Local Exhaust Ventilation](#)
 - William A. Heitbrink -- [Process Choices as a Means to Reduce Worker Air Contaminant](#)

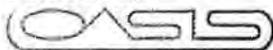
Exposure

Gregory Dripps -- Integrated Chemical Risk Assessment: Controlling Product EHS Risks

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