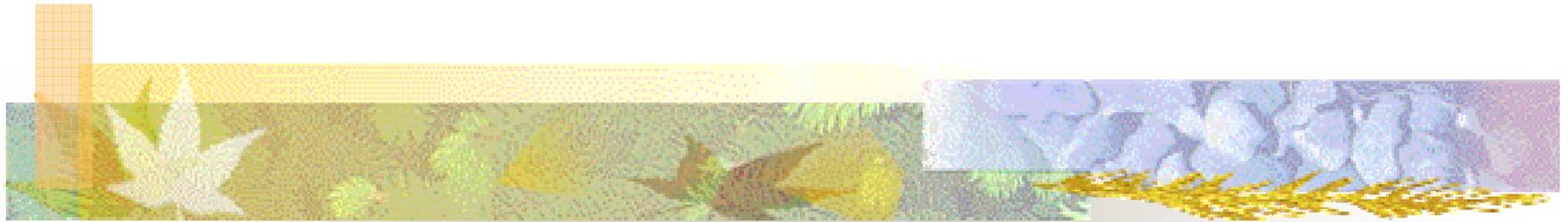


# Pollution Prevention Success Stories



Pollution Prevention  
Video Conference May 18-20, 2004  
LA-UR-04-3062



# DOE P2 Compilation Document

- DOE has compiled a list of successful pollution prevention projects from many of its sites.
- This document can be seen on LANL's Pollution Prevention website:  
<http://p2.lanl.gov>



## Some P2 Successes at LANL

- Installing PyroClean ovens to reduce solvent used with cleaning glassware.
- Using steel ferrules, instead of aluminum, on rubber hoses to prevent leaks, and reusing spill control material indefinitely.
- Installing equipment in the machine shop to completely eliminate coolant waste.



# Pyro-Clean Ovens

- Pyro-Clean ovens heat contaminated glassware and vaporize organic residues.
- Use of solvents is reduced, creating less waste and less exposure to workers.
- Manual scrubbing is eliminated, and time is saved for more important work.
- Filters trap vapors and air pollutants.



# Equipment Maintenance Shop

- The shop switched from aluminum ferrules to steel for the rubber hoses carrying oil and hydraulic fluid.
- Lower failure rate reduced spills and leaks by more than 60%. Less waste is created, and less time is spent cleaning up.



## Equipment Maintenance Shop

- Spills inside the shop are soaked up with Oil-Sponge instead of vermiculite.
- Oil-Sponge contains oil-digesting bacteria, so Oil-Sponge can be reused indefinitely to clean up spills.
- Vermiculite purchases have been cut by over 95%, and no New Mexico Special Waste is generated.



## ESA-WMM Machine Shop

- The machine shop uses non-toxic coolant.
- The coolant in each machine is automatically circulated and aerated. Tramp oil floating on the surface is collected for recycling.
- Dirty coolant is filtered to remove particles and then returned to the machines.



## ESA-WMM Machine Shop

- Waste coolant is evaporated to remove water, and the remainder is recycled.
- Coolant purchases have fallen by 75%, and about 3000 gallons of hazardous waste coolant are avoided. Savings from this project are estimated at \$100,000 per year.