

# Aqueous Parts Washer Pilot Program

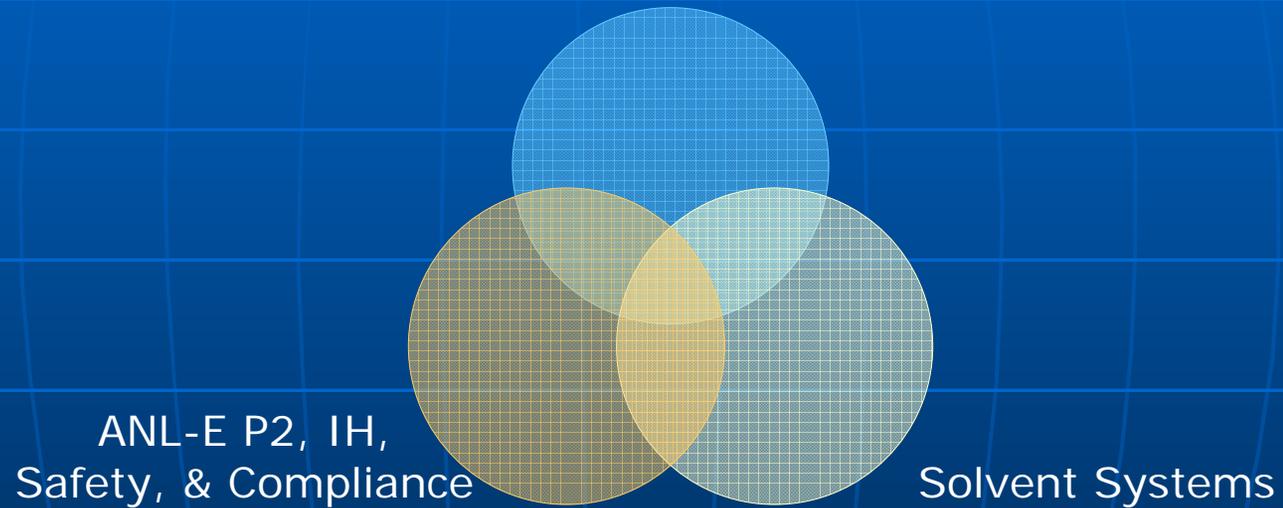
## Argonne National Laboratory – East - 2004



Presented by B. Markwenas  
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# Partnering for a Better Process

## III. Waste Management Research Center



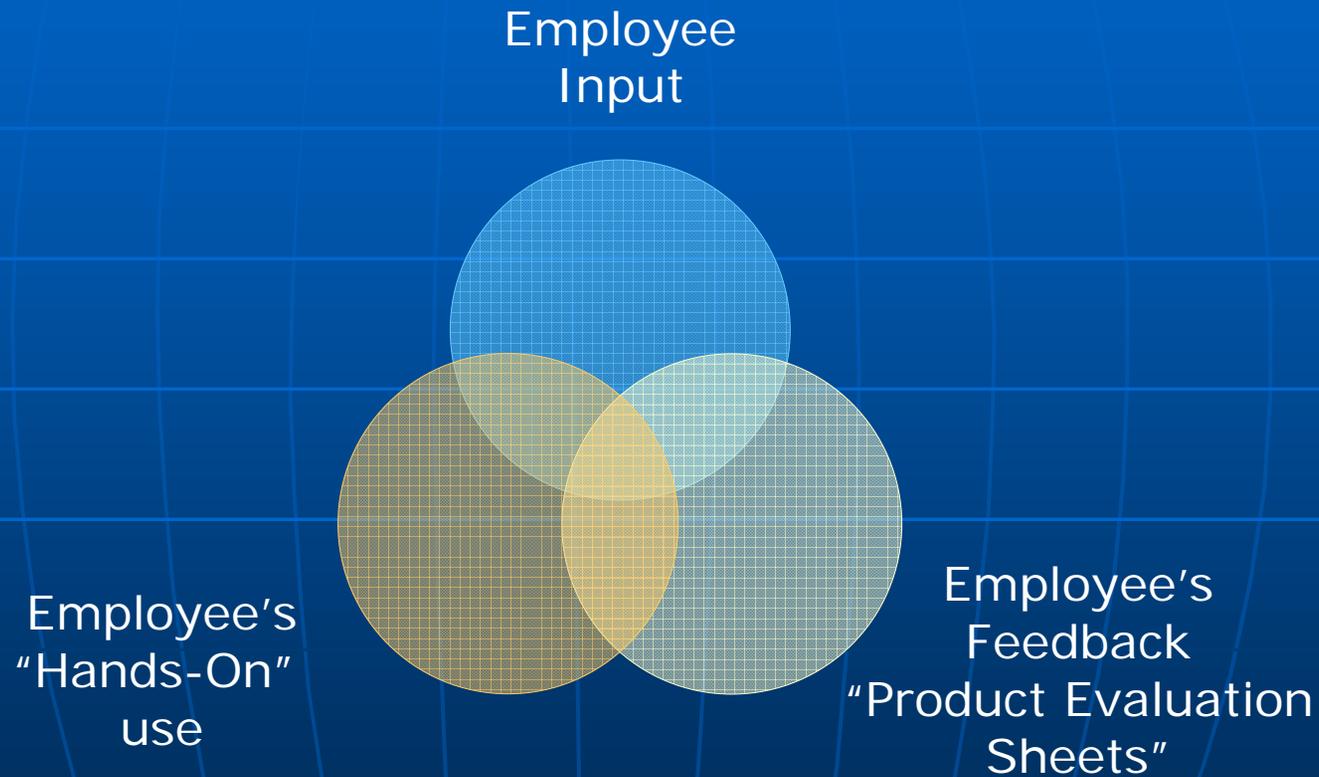
# Access, Analyze, & Document Current Process



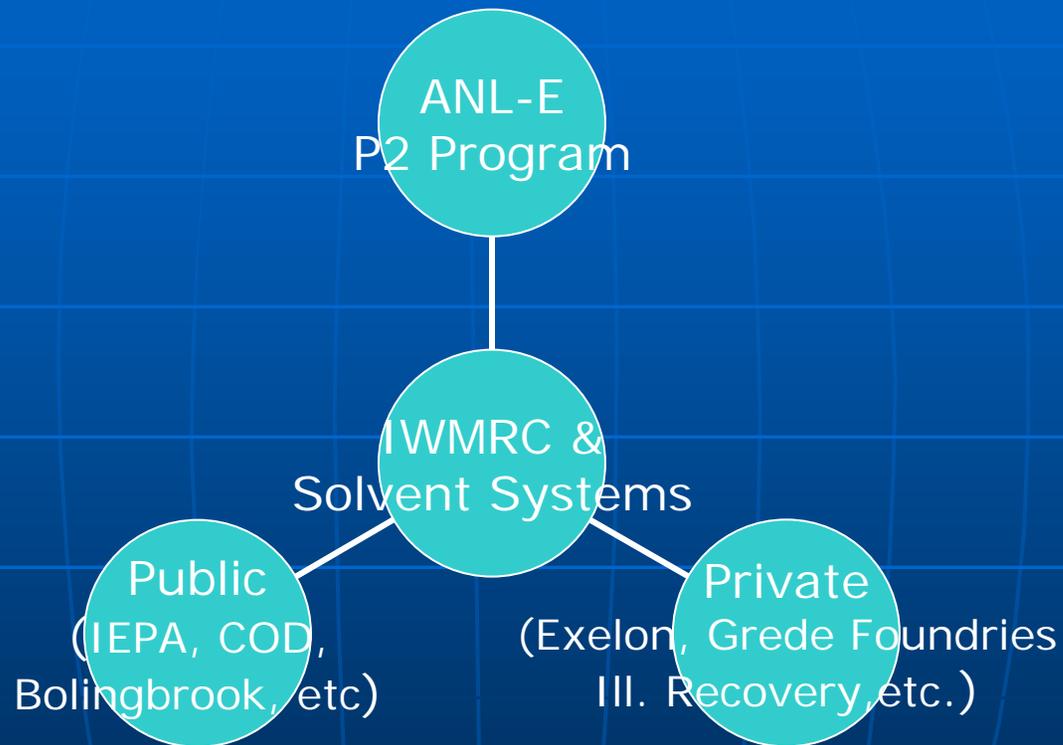
# Items Needed Before Pilot Program Gets Underway

- Material Safety Data Sheet (s)
- Job Safety Analysis
- Product Evaluation Sheet
- National Environmental Protection Act (NEPA) Review
- Training on Aqueous Parts Washer
- Manual for the operation/maintenance of parts washer needed

# Implementing Parts Washer Pilot Program



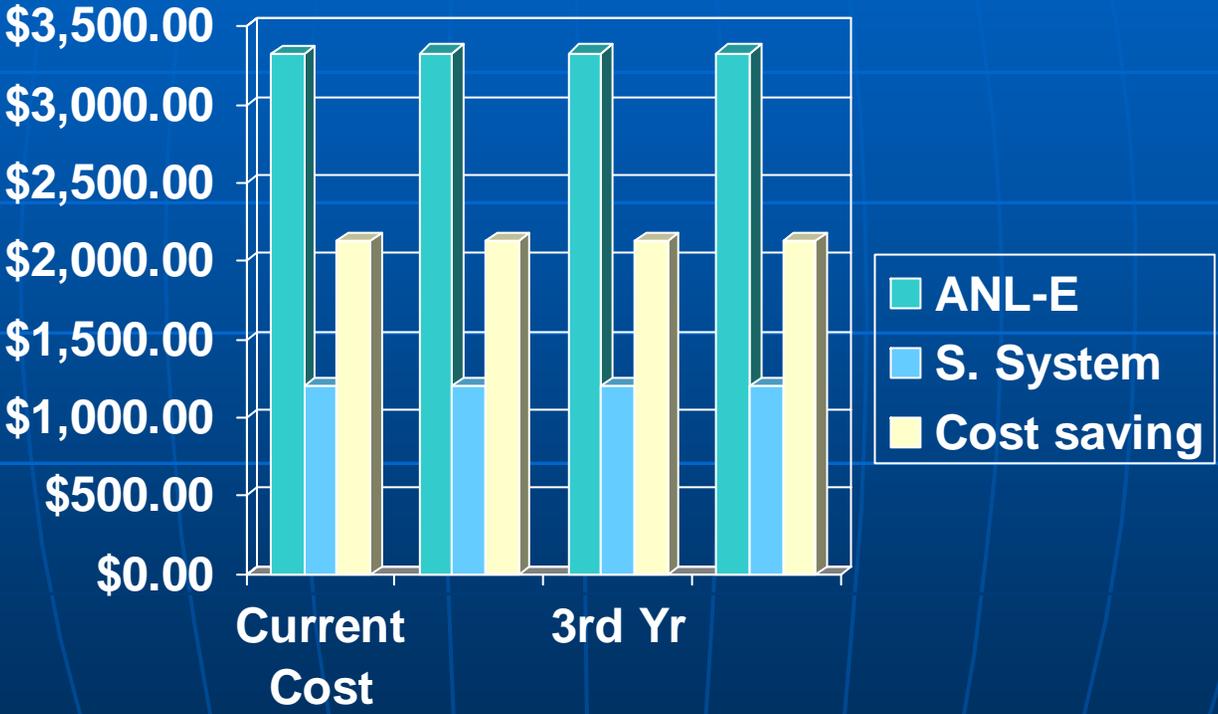
# Outreach and Technology Transfer



# Results of Parts Washer Pilot Program

- Met DOE Order 450.1 & Executive Order 13148, *"Greening the Government through Leadership in Environmental Management"*
- New apparatus was effective to use
- Cost savings of 64% per year
- No discharge concern
- VOC emission reduction

# Cost Savings



# Results of Parts Washer Pilot Program

cont'd.

- No disposal concerns
- Oil/oil by-products are separated from cleaning solution and recycled
- No handling/storing of cleaning solution; cleaning solution recycles itself
- Based on ANL-E's feedback, apparatus was improved

# Conclusion

- Reduced Costs
- No Disposal Issues
- Reduced VOC emission
- Safer to Use
- Separates Oil Waste from Cleaning Solution
- No Discharge Issue
- Effective to Use