

## **Waste Minimization Strategies That Work: A Case Study of Boston University and Umass Lowell**

### **Presenter(s)**

Glenn MacDonald, Safety Specialist, University of Massachusetts Lowell  
Michael Benson, Director of Higher Education Division, Triumvirate Environmental  
Paul M. Kelly, Jr., Environmental Manager, Boston University

### **Abstract Text**

Minimizing the waste you produce can be a difficult path especially when your campus research community is always growing. As stewards of your campuses, this responsibility becomes more apparent each year. This presentation will examine the complexities of managing and maintaining waste minimization programs within a large university (i.e Boston University) and a mid-sized university (i.e. University of Massachusetts Lowell).

Paul Kelly of Boston University will outline how they worked with Mike Benson and Triumvirate Environmental to achieve many of their waste minimization goals (i.e. solvent recovery, waste neutralization, etc.) Glenn MacDonald from Umass Lowell will discuss how they have addressed their waste minimization goals by implementing a central inventory and purchasing program run through the Environmental Health and Safety Department.

This presentation will also discuss several recent challenges and successes that each institution had while developing their waste minimization initiatives.

Also, as part of our commitment to educate you on waste minimization, we will be reviewing statistics collected while surveying key EH&S personnel on waste minimization goals and strategies. The survey was administered to varying sized research institutions during the spring of 2007.

This presentation will help you gain a better understanding of the following:

- Where to focus your time and how to identify those areas on your campus
- How to utilize a cost benefit analysis to gain funding
- Waste minimization programs that work
- Different methods for source reduction, recycling, and treatment of wastes (i.e. solvent recycling, teaching lab efficiencies, acid neutralization, Ethidium Bromide substitution, etc.)
- How to utilize central purchasing and inventory to reduce stock materials on campus
- Key stakeholders needed to develop successful programs

## **Presenter Bio(s)**

### **Paul M. Kelly, Jr., Environmental Manager, Boston University**

Paul has spent the last 5 years as the Environmental Manager for Boston University, B.S. Environmental Engineering from Wentworth Institute of Technology and is currently working towards a master degree in Urban Affairs at BU.

### **Michael Benson, CHMM, REM, Triumvirate Environmental**

Michael Benson is the Director of Higher Education Division within Triumvirate Environmental. Michael has worked for Triumvirate since 1998. During his tenure, he has become an industry leader in RCRA hazardous waste management. He assists numerous colleges and universities in solving critical environmental problems such as waste reduction, sustainability, EMS, and minimizing environmental liability. He received his Bachelors in Environmental Science from the University of Massachusetts, Lowell.

### **Glenn A. MacDonald, Safety Specialist, University of Massachusetts Lowell**

Glenn MacDonald is a Safety Specialist at the University of Massachusetts Lowell (UML) since 2003. He received his bachelors in Industrial Technology from the University of Lowell and is currently pursuing a masters degree in Industrial Hygiene at UML. Glenn has worked a total of 15 years in the industry working as a Safety Specialist, an EHS Manager for a textile manufacturer and formerly a Facility Compliance Manager for a large TSDF located in the Northeast.