Practical Applications for Ash Reuse

This panel session reviews a topic of long-standing interest and importance to the municipal waste combustion industry; how can some or all of the ten percent (10%) by volume of incoming material that remains after municipal solid waste is combusted be productively reused? This panel will address various reuse related topics, including but not limited to the following:

- Pinellas County, Florida hosts a regional program where recovered ferrous metals from municipal waste combustors are shredded and recycled; an overview of experiences, economics, and logistics will be presented.
- The Pennsylvania Department of Environmental Protection (PADEP) will discuss the technical and regulatory background behind a September 2003 Consent Decree entered with American Ash Recycling for removal of residual materials in York County, Pennsylvania.
- The City of Tampa has short-listed two (2) companies for what promises to be a precedent-setting ash reuse program; a status report will be given.
- SUNY Stony Brook’s Waste Reduction and Management Institute’s work on two demonstration programs using processed MWC ash (using processed MSW combustor ash in both cold mix asphalt and construction quality cement blocks as well as a concrete block demonstration program) will be discussed.
- Florida Department of Environmental Protection’s (FDEP’s) multifaceted program to address municipal combustion ash residue beneficial use determinations, ash regulation changes, and its analysis of statewide total metals data will be reviewed.

What will one get from attending the session? At the end of the MWC process, there is ash and metal. Anything that can be done in an environmentally responsible way to reduce the amount of material that is simply landfilled is worth considering. Like MSW, ash may truly be considered a renewable resource, but only if a productive and economically competitive reuse is found. This session takes a pragmatic look at the state of practice, some of the successes, some of the failures, and some of the strategies being pushed as "cutting edge" research into ways to increase productive reuse of ash residue.

Panel members include the following experts on the subject:

Robert Hauser, Jr., Solid Waste Operations Manager: Pinellas County Utilities
Phone: (727) 464 7541; Email: rhauser@co.pinellas.fl.us
Pinellas County Florida takes in metals from WTE facilities region wide, processes it and sells it. Bob Hauser - a 30 year professional consultant with CDM will address the challenges of the current contract arrangement - and operational challenges.
John Krueger, Program Manager, Pennsylvania Department of Environmental Protection  
Phone: Phone (717) 705-4938; Email: jokrueger@state.pa.us  
Mr. Krueger has been deeply involved with the American Ash Company Consent Order in York Pennsylvania which involves the removal of hundreds of thousands of tons of ash residue over the course of years.

Nancy McCann, Urban Environmental Coordinator, City of Tampa Florida  
Phone: 813-348-1118; Email: Nancy.McCann@ci.tampa.fl.us  
The City of Tampa has issued an RFP for ash reuse. Ms. McCann will outline the content of the procurement criteria and the status of the procurement itself.

Dr. Frank J. Roethel, Research Professor, Waste Reduction and Management Institute  
State University of New York at Stony Brook, New York 11794-5000  
Phone (631) 632-8732; Email: froethel@notes.cc.sunysb.edu  
A nationally recognized expert on ash reuse, Dr. Roethal will present a summary of recent work he has done with pilot-scale road installations and buildings.

Richard B. Tedder, P.E., Solid Waste Program Administrator, Florida Department of Environmental Protection. 2600 Blair Stone Road, MS # 4565, Tallahassee, FL 32399  
Phone: (850) 245-8735; Email: Richard.Tedder@dep.state.fl.us  
Mr. Tedder has worked extensively with the regulated WTE industry since (at least) 1994 on ash residue issues. Most recently, FDEP has compiled a statewide data base of total metals data from WTE facilities and posted it on the internet. He will also provide an update on ash regulations in Florida.

Drew Lehman, Senior Scientist, Dvirka and Bartilucci Consulting Engineers, Inc.  
Phone: (908)-668-4747; Email: andrewlehman@att.net  
Mr. Lehman has twenty-five years of experience in solid waste management (waste to energy and composting) permitting and compliance, and recycling program startups. His interest in ash residue management dates back to 1987, when he first joined Ogden Projects (now Covanta Energy). Residue management has been an intractable challenge for the industry. With so many different venues working on unique aspects of this issue of perpetual concern to the WTE industry, the time seems ripe to revisit the issue in a public forum - by pulling together industry and regulatory professionals who are currently grappling with problems and seeking solutions.