



U.S. EPA Environmental Technology Verification (ETV) Program Materials Management and Remediation (MMR) Center

Summary of the Stakeholder Committee Teleconference
Wednesday, February 18, 2009

The meeting was called to order at 1:05 pm EST by Amy Dindal, Battelle.

Present at **Roll Call**: Steve Acree (US EPA), Cathy Allen (US EPA), Paul Beam (US DOE), Erica Becvar (AFCEE), Richard Carmichael (TX CEQ), Skip Chamberlain (US DOE), Amy Dindal (Battelle), Kenneth Feathers (CT DEP), Stephanie Fiorenza (BP), Allen Geisendorfer (NY DEC), Robert Giraud (DuPont), Maria Gordon (Battelle), Jennifer Griffith (NEWMOA), Doug Grosse (US EPA), Paul Hadley (CA DTSC), Jim Harrington (NY DEC), Dan Harris (OH EPA), Wayne Harry (TX CEQ), Teresa Harten (US EPA), Greg Hussmann (BP), Jennifer Kaduck (GA DNR), Leslie Karr (US Navy), Louis Maccarone (RI DEM), Doug Mellema (USACE), John Novak (VA Tech), Tom O'Neill (NJ DEP), Carlos Pachon (US EPA), Robert Phaneuf (NY DEC), Daniel Powell (US EPA), Heather Rectanus (Battelle), Teri Richardson (US EPA), Ramon Simon (Bayer), Russ Sirabian (Battelle), Steven Slaten (NASA), Michael Smith (VT DEC), Dave Wandor (Dow), Jennifer Weidhaas (North Wind), Randy Wentsel (US EPA).

Welcome

Teri Richardson, EPA Project Officer for the ETV MMR Center, welcomed all the participants and briefly spoke about of EPA's leading role in developing and evaluating hazardous waste technologies from its inception. The new focus of EPA is finding a sustainable and green way to deal with the new waste streams and technologies in our world today and taking the longer view in solving problems.

Introductions

Amy Dindal, Battelle, described the purpose of the meeting as an opportunity for everyone to get an overview of the MMR Center and its activities in order to decide whether this was of interest to them. She introduced the EPA and Battelle staff, and asked all those present to introduce themselves and identify their areas of interest.

ETV Program Overview

Teresa Harten, EPA, described the evolution of the ETV program from 1995 to the present, the six current centers, how ETV operates, and how participants—government, vendors, users—benefit.

MMR Center Overview

Amy Dindal discussed the goals of the MMR Center, the roles of stakeholders and collaborators, and the next steps for Center activities.

Stakeholder Input on Technology Categories

Russ Sirabian led the participants in a discussion of which potential technology categories for remediation and materials management should be priorities for the Center. The following were the main discussion points:

- **Phytoremediation:** Leslie Karr brought this up as a potential area.
- **Power remediation systems:** Dan Powell said that we should look at ways to supply power to remediation systems with renewable energy.
- **Evapotranspiration systems:** It was mentioned by Doug Grosse as an energy savings component. This can be used to cool down areas and is used in green buildings (green roofs).
- **In-situ treatment** (Dave Wandor, Jennifer Weidhaas, Jennifer Griffith, Greg Hussman, Ken Feathers):
 - Test in a range of sites and conditions
 - Define the limits of the technology; indicate the range of sites in which it is effective
 - Consider the mass transfer and mixing occurring at the subsurface
 - Evaluate the delivery methods
 - Evaluate the investigation tools
- **Treat waste created from maintenance dredging projects** (blend them into soil products). (Ken Feathers)
- **Use or dispose of byproducts from biofuels**, such as acrylic glycerin. (Dan Powell)
- **Verify manufactured soil** (not all sources of the waste are the same). (Dan Harris and Jennifer Griffith)
- **Translate municipal solid waste streams into biofuels or energy sources.** A plasma process was mentioned and a plant in CA that is planned to be built that will do this.
- **Render nonreactive the reactive waste from certain waste streams**, such as aluminum smelting, where the waste is reactive with water. (Dan Harris)

There was discussion regarding how the information from the verification testing is disseminated and how the verified technologies are linked with other sites with differing site conditions. All results are made publicly available through the ETV web site. The ETV program is a snapshot of the performance of the technology under a described set of conditions, and performance should not be extrapolated to other sites/conditions.

Recap of Priorities and Next Meeting

Amy Dindal suggested that another meeting take place soon, since this first call needed time for the participants to identify themselves, which did not leave enough time for discussion of MMR Center technology category priorities. The participants will receive an e-mail asking whether they wish to continue as stakeholders and whether their interests lie in Materials Management, Remediation, or both.

Adjourn

Amy Dindal adjourned the meeting at 3:05 pm EST.

Respectfully submitted,

Maria Gordon

Battelle ETV MMR Center Stakeholder Coordinator