

**Engineering Forum  
New Orleans, LA  
June 19, 2006**

**Business Session Meeting Notes**

Co-Chair Election Results & Membership Update:

Jon Bornholm (Region 4) was announced as the newly elected co-chair of the Engineering Forum (EF). His term runs through Spring 2008.

Regarding possible new members, Sandra Bourgeois (Region 8) has recently expressed an interest in joining. Fred MacMillan (Region 3) is still interested in joining, and there is a person in Region 1 (Aaron Gilbert) who is still considering joining.

Issue Paper Updates:

Most of the issues papers have been developed by the Office of Research and Development (ORD), not necessarily by the EF. However, the EF has had some input on them. Dave Reisman, from ORD's National Risk Management Research Laboratory (NRMRL-Cincinnati), provided some background on the papers including formatting issues, for example, where to place the author's name. Some believe that websites cited in the papers should be "hot linked." Gene Keeper (Region 6) would also like to see links from the table of contents directly to sections or subsections. Dave clarified that the forums can also write or initiate their own papers. By the end of the summer, Dave expects that three or four papers will be finished. Dave indicated that 3 to 4 page summaries of the papers will also be prepared to make it easier for the reader to know what is covered in the papers. EF members agreed that these papers really should not cite references older than 2000.

The following is a status of the various issue papers currently underway:

*In-Situ Soil Treatment* - This paper was initiated by Gene and the EF has discussed its content numerous times in the past. Kelly Madalinski has taken over the lead for this paper and has recently produced a revised draft that was sent out shortly before this meeting. The intention of this draft is to summarize the current understanding of the technology and provide references for further information. Dave said that he was disappointed with the latest draft and does not believe the paper is ready for finalization. He believes there is too much information on phytoremediation in the paper given how little it is used compared to other technologies. He noted that a table that he considered important had been removed. Dave had thought that the old document would be revised, not that the approach would be changed with this version. He believes that the EF members should indicate what RPMs want to know in the issue papers. The same terminology is needed when there are various papers that deal with the same technology. He indicated that the cost data in the paper is outdated, some sections are not up-to-date, and that there are some inaccuracies regarding the technology. Gene agreed to coordinate comments and forward them to Kelly; however, Kelly asked that the EF not bother to comment on the current

version. Kelly will modify the paper and provide a timetable for review. The EF discussed whether or not to prepare a separate issue paper on in-situ thermal treatment for soil, but no definite conclusion was reached.

*Oxygenates* - Comments are needed from Trish Erickson (ORD NRMRL-Cincinnati). Steve Kinser volunteered to contact Trish Erickson for her comments on this paper.

*Selecting Treatment Process Design Data* - Bernie Schorle indicated that he will get back to this when time allows.

*Bioremediation* - Jon Bornholm indicated that the last chance for comments was Friday, June 16. The paper should be completed in 2 to 3 weeks.

*PCBs* - Steve indicated that there have been some recent, severe comments on this paper. There was some regulatory material in it that resulted in some concern over its accuracy which will be checked out.

*Mining* - Dave reported that this paper is essentially done.

*In-Situ Chemical Oxidation* - Hilary Thornton indicated that Scott Huling (ORD NRMRL-Ada) is working on this paper and that it will be sent out again for comments.

*Soil Capping* - A version (entitled *Evapotranspiration Covers*) is on the Engineering Technical Support Center Intranet site (<http://intranet.epa.gov/nrmintra/etsc/papers.html>). This January 2006 version is 37 pages long.

*Vapor Intrusion* - Ray Cody indicated that he has prepared an outline and a draft is being prepared.

*In-Situ Thermal Treatment* - Leo Romanowski indicated that the initial kickoff meeting was held and that an outline has been prepared. Eva Davis (ORD NRMRL-Ada) is preparing the paper. A draft is expected by the end of July followed by a 60 day EF comment period. The next draft is scheduled for January 2007.

#### Evergreen List:

June 23 is "sweep day" which is when money that has not been used becomes available. Dave suggested that the EF prioritize something in case some money becomes available. There are currently two items in the high priority category - SOP for O&M Reporting and Lessons Learned from the use of a technology. Regarding the Lessons Learned topic, it was mentioned that some sites are handled by PRPs and there might be some legal problems associated with including them in a paper. There was a suggestion that the EF go to their regions and ask for suggestions for technologies for which a Lessons Learned-type paper would be beneficial. The EF decided to discuss this further on a future monthly call. Another possibility is that "things to be considered" would be the theme of the paper. The paper or papers might focus on a few

technologies. For lessons learned, we should look at optimization reports and five-year reviews. There may also be some early “optimization of pump-and-treat system” reports available. GeoTrans completed several of these reports for fund-lead sites in Region 3 or 4.

#### Fall 2006 TSP Meeting & Future TSP Meetings:

The fall 2006 TSP meeting (GW-Lead) is scheduled for the week of November 13 in Long Beach, CA in collaboration with the Groundwater Resources Association of California (GRAC) meeting (<http://www.grac.org/hires.asp>). We will stay in the same hotel where the GRAC meeting is being held. We discussed what we could do separately if there is a part of the GRAC meeting that we may not have a high interest in. We still do not have an agenda. On Thursday of the meeting it has been proposed that the attendees would go to a place where vendors would demonstrate their equipment.

We discussed the possibility of having a future fall meeting in conjunction with a U.S. Army Corps of Engineers’ (USACE) meeting that is typically held in the fall or winter. The next EF-lead meeting will be in the fall of 2008. The next USACE meeting is scheduled for January 2007. This time of year is based on the availability of EPA headquarters. The USACE meetings used to be held in November or December. Eric Hines indicated that they are flexible on timing in the future. He said that their meetings focus more on construction than on design since not much is being done on design presently. There is a lot on lessons learned. The meetings usually last three days including a half day for business and a half day for a field trip.

#### **Participants:**

Ray Cody, Region 1, via teleconference  
Sharon Hayes, Region 1, via teleconference  
Stephanie Vaughn, Region 2  
Andy Palestini, Region 3  
Hilary Thornton, Region 3  
Jon Bornholm, Region 4  
Leo Romanowski, Region 4, via teleconference  
Felicia Barnett, Region 4, Hazardous Substance Technical Liaison  
Tony Holoska, Region 5  
Bernie Schorle, Region 5  
David Seely, Region 5  
Gene Keepper, Region 6  
Steve Kinser, Region 7  
Bill Rothenmeyer, Region 8  
Neil Thompson, Region 10  
Kelly Madalinski, Headquarters, TIFSD  
Dave Reisman, ORD NRMRL Cincinnati  
Eric Hines, U.S. Army Corps of Engineers, Omaha