The background of the slide features a large, faded, light blue circular seal of the U.S. Environmental Protection Agency. The seal contains the text "U.S. ENVIRONMENTAL PROTECTION AGENCY" around the perimeter and a central emblem with a sun, a leaf, and a water drop.

***EPA OSWER Comments to NIEHS  
External Advisory Panel***

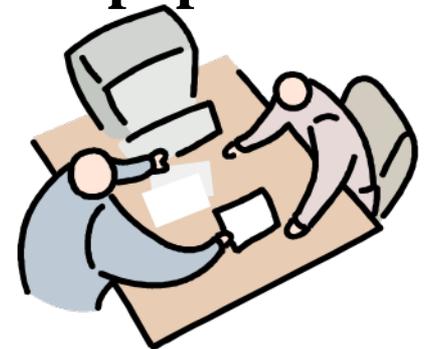
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# 1. *What are the key, fundamental scientific issues EPA faces regarding hazardous waste..?*

- **Accuracy of exposure assessments and demonstration of health risk reduction as a result of remediation.**
- **Health effects studies at low dose exposures; studies of multiple contaminants; tools to assess health risk to children and other populations with varying susceptibility;**
- **Ecological risk the issue of extrapolation of toxicity test results to impact to field populations has been a challenge**



## **2. What are the emerging health/risk and remediation issues..?**

- **Impact of the use of alternative fuels;**
- **Impact of adaptation to climate change on cleanups;**
- **Utilizing computational toxicology and high throughput testing for multiple chemical exposures, at low exposure levels, to complex populations;**
- **Remediation issues include nanotechnology and SBRP should work to complement existing research on the human and ecological toxicity of nanomaterials;**
- **Use of green remediation to reduce GHG emissions, to produce energy, to store CO<sub>2</sub>**

### ***3.. communication of research findings that may have direct and immediate application to Superfund program?***

- **SBRP could provide a useful service to EPA by synthesizing the research conducted for PCBs, arsenic, and other common Superfund contaminants studied by the SBRP grantees;**
- **On-going, proactive outreach by the NIEHS SBRP to the EPA Superfund end users to translate and disseminate useful, applicable research findings;**
- **Topic area workshops and compiled information in websites can also be useful.**

### ***3a. What Program Structures and Strategies would support communication of research at the grantee level***

- **Presentations to OSRTI at the HQ level-by the researchers**

## ***4. What activities and relationships would suit the primary objectives stated above?***

- **Basic research seems to be the mandate, but NIEHS should be more consistent in how it demonstrates the value of the research to Superfund.**
- **Applied research is ORD's function, but SBRP should stay informed of Superfund's applied research needs and activities.**
- **OSRTI recommends SBRP keep the focus on basic research but make sure there are opportunities to engage the researchers into discussions with practitioners on field applications.**

## **4b. Are structures needed**

- **To the extent possible, NIEHS and its contractors for the SBRP should communicate consistently with OSRTI and keep OSRTI abreast of the various SBRP outreach efforts to ORD, EPA programs and Regional offices**
- **Discuss potential for the EPA practitioners to engage with the researchers to explore field applications**

## ***4c. Are SBRP conferences/ workshops helpful..***

- **It is an advantage to bring the researchers to EPA meetings where the Government personnel are already present**
- **Readiness (National On Scenes Coordinator meeting), NRPM (National Remedial Project Managers), National Risk Assessors Meeting.**
- **Health-related workshops, such as bioavailability, are more beneficial and relevant to Superfund when program staff are involved.**



## **4d. Community outreach**

- **SBRP should more clearly define “Community Outreach” and which stakeholders are included (Federal, State, Tribal, the general public);**
- **It is important that the researchers work with EPA to identify outreach needs before conducting research in a community and to seek community feedback after outreach.**