

**SAB "SELF-IDENTIFIED" ADVISORY PROJECTS SUPPORTED BY THE SAB STAFF OFFICE AS OF
MAY 1, 2005**

Committee or Panel	Activities	Project Number	Chair	Type of Advisory Activity	DFO	SAB Management Lead	Committee or Panel
Ad Hoc Committee To Be Formed	An Integrated Approach for Reactive Nitrogen	05-27	Dr. James Galloway	Original Study	Kathleen White	Anthony Maciorowski	Federal Register Notice for nomination of experts published March 14, 2005.
Environmental Health Committee	Defining Adverse Effects for Risk Assessment and Risk Management	05-13	Dr. Rebecca Parkin		Suhair Shallal	Vanessa Vu	Proposal under discussion.
Ecological Processes and Effects Committee	EPA Ecological Risk Assessment Approach	05-15	Dr. Virginia Dale	Self-identified study	Thomas Armitage	Vanessa Vu	Self-identified study. Planning teleconference held 4/21/05. Steering Group established. Workshop tentatively planned for January 2006.
Environmental Engineering Committee	Industrial Ecology Framework to Improve Resource Recovery Strategies for Non-Hazardous Industrial Wastes: Example Applications to the Energy and Pulp and Paper Industries	05-47	Dr. Michael McFarland		Kathleen White	Anthony Maciorowski	Scope of project under discussion by EEC.
Radiation Advisory Committee	Optimization of Radiological Emergency Cleanup Decisions	05-25	Dr. Jill Lipoti	Scoping	K. Jack Kooyoomjian	Vanessa Vu	Proposal under discussion by RAC.
Committee on Valuing the Protection of Ecological Systems and Services	Valuing the Protection of Ecological Systems and Services	03-06	Dr. Domenico Grasso	Original Study	Angela Nugent	Anthony Maciorowski	Sixth meeting held in April 2005. Committee agreed to develop 3 interim reports. Parts of two reports being drafted.

SAB Chair's List of Projects Identified by SAB Members in Winter 2005 and His List of "Carry-Overs" from Previous Discussions

2005 April 21

Possible topics for SAB self-initiated studies

The following are topics the board identified in discussion this winter. Resources constraints are such that it will probably not be possible to undertake more than one or two during the coming year.

Air

Workshop to develop global mass balance for Hg. Granger followed up on this one with a couple of folks in the mercury research community who confirmed that in terms of the state of the science and future research planning this could be a very useful exercise. However, it would be unlikely to directly impact ongoing regulatory decision making.

Intercontinental transport and oceanic sources of air pollution. This is somewhat related to the Hg idea, since international transport plays an important issue there as it does with a number of other air pollutants.

Bioactive μ -particles. Important topic. The primary question is what we might reasonably hope to contribute.

Ammonia. This is becoming an increasingly important issue in regional air pollution. It is closely linked to dairy farming.

Aquatic Systems

Sediment remediation strategies: a look at whether and when it is best to dig it up, degrade it in place, cover it up.

Control of aquatic invasive species

Solid Waste

Integrated management of animal wastes.

Other

Priority setting for chemical testing

Clean-sheet approach to chemical testing

Strategies to reduce the use of animals in research

Is the right research being done at DoE to support future EPA needs to develop science based regulation for deep geological injection of CO₂? This one may no longer be that important for the SAB since the agency has now engaged the issue.

An integrated look at some hot spot region such as the San Joaquin Valley or the Houston Ship Canal.

Multi-TMDL approach in regional science

Potential toxicological issues of nanotech

Improving the definition of "pathogen"

Managing joint industry/government funding of environmental R&D

Once the current budget review is over – meeting with OMB to explore improving how PART deals with research.

In addition to these, the following are carryovers from past discussions:

Evaluating the Agency's Ability to Anticipate Risk (IHEC suggestion): The project was returned to the committees for additional scoping. This project has been dropped by the combined committee in favor of project 2 immediately below in this note.

Probabilistic Approaches for Cancer and Non-cancer Effects (EHC suggestion): The SAB Staff Director was tasked with discussing the project with the EPA Science Policy Council prior to returning it to the EHC for further planning that includes EPA needs provided by the SPC. The combined committees have formed a subcommittee to define the proposal in a more focused way and they will be meeting as a group within the next 4-6 weeks to present the revised proposal to the rest of the committee members. Once a final proposal is approved by committee members, it will be returned to the Board for further consideration.

An Integrated Research Approach for Nitrogen (EEC suggestion for FY 2004): The project was accepted by the Board for scoping in FY 2003. That scoping occurred in FY 2004 and Dr. Galloway is continuing to plan the project with the assistance of the DFO. Action is anticipated in FY 2005. This idea clearly is related to the ammonia, hot spots topics in the list above.

EPA Research in a New Industrial Age (Cross-Goal Team suggestion): The project was combined with item 4 on this list and formed the basis

for the SAB Workshop during December 2004. Staff and Board members are working on documenting the results of the workshop and identifying follow up actions.

Environmental Implications of Nanomanufacturing Technologies (EEC suggestion). This topic is closely related to several of those above. Scoping Exercise for Consideration of the EPA Ecological Risk Assessment Approach (EPEC suggestion): The project was accepted by the Board for action in FY 2005.

Commentary on a Framework for Optimization of Radiological Emergency Cleanup Decisions (FORECD) (RAC suggestion): The Board asked the RAC to revise the project to clarify issues and to fold in social science components. The RAC wishes to move forward with the project. We anticipate further consultation among Chairperson Lipoti, Dr. Vu, and Dr. Fischhoff of the Board (who also serves on a DHS advisory committee). Once that consultation is completed we will clarify the role of EPA and the SAB in the topic so that the project can be properly configured for an EPA client.

Industrial Ecology Framework for Resource Recovery (EEC suggestion): The project was returned to the EEC for revision and resubmission to the Board.