

Scientific Committee 1-16

**NCRP Headquarters
7910 Woodmont Avenue, Suite 400
Bethesda, MD 20814**

April 7- 8, 2010

AGENDA

Wednesday, April 7

9:00 – 10:00 Introduction and General Update on the Committee's Progress – Preston

10:00 – 12:00 Review of Chapters to date

1. Introduction – All
2. Cancer – Sources of Uncertainty
Breast Cancer and Occupational Studies – Boice
LSS etc – Preston, D replaced by Shore
Meta Analyses – Hoffman
Radon – Hornung

12:00 – 1:00 LUNCH

- 1:00 – 5:00**
3. Epidemiological Studies – Preston, D replaced by Shore
 4. Uncertainty in Application to Radiation Protection Standards - Kocher
 5. Uncertainty in Application to PC/AS – Hoffman & Land
 6. Meta Analysis and Impact on Uncertainty – All
 7. Use of Animal and Cellular Data – Woloschak
 8. Identification of New Epidemiological Data – Boice

5:00 Adjourn

Thursday, April 8

9:00 – 10:00 Summary of Report Draft
B. Non Cancer – Brill
C. Heritable Effects – Chakraborty

10:00 – 11:00 Report – Uncertainty and Risk – What will we be able to conclude? – All

11:00 – The Way Forward – Assignments and Timetable - All
(Creating a Sense of Urgency)

SC 1-16 Committee Meeting Minutes
Meeting dates: 4/7/2010 to 4/8/2010
Meeting location: NCRP headquarters

Meeting attendees: **Chairman:** J. Preston. **Members:** A Brill, R. Chakraborty, R. Conolly, R. Shore, R. Hornung (teleconference available). **Advisors:** C. Land, O. Hoffman (teleconferenced). **NCRP:** T. Tenforde (President), M. Miller (Staff consultant).

The meeting began with review of the status of completed writing assignments (section topics) in the Committee's minutes of 10/22/2009. Substantial progress was evident, but, as indicated below, some items remain to be addressed and some "new" items were added to the "to do" list. The revised listing is indicated sequentially below by sections.

Section 1. Introduction to Uncertainty in Risk Analysis for Radiation-induced Cancer, Non-Cancer, and Heritable Effects. Assignments: J. Preston will "pull together" the various contributions into a cogent text. Precipis are still needed for this section on/(from):

Heritable Effects (R. Chakraborty)
15 Nations Study, etc. (J. Boice)
A-bomb Analyses (R. Shore)
Breast cancer (C. Land)
Cellular effects (J. Preston)

Section 2. Uncertainties in Risk Estimates Derived from Epidemiological Studies.
Roy Shore will "build" on the initial draft submitted by **D. Preston**.

Section 3. Sources of Uncertainties in Major Radioepidemiological Cancer Studies.

- (1) LSS, Mayak, Techa River (R. Shore)
- (2) Breast Cancer (C. Land)
- (3) Occupational Studies (J. Boice).
- (4) Radon. R. Hornung's subsection needs to address the listed 9 items of uncertainty
- (5) Examples of accounting for sources of uncertainty in risk assessment (O. Hoffman) + "old and new tools" (C. Land).

Section 4. Uncertainty in the Application of Risk Estimates to Radiation Protection Standards.
Note: D. Kocher has agreed to write this section.

Section 5. Uncertainty in the Application of Risk Estimates to Probability of Causation/Assigned Share. Note: [1]. O. Hoffman and C. Land have submitted a working draft. [2]. Rory Conolly has agreed to write a subsection on Biologically-based Modeling and Dose Response Models.

Section 6. Utility and Limitations of Animal and Cellular Data in Support of Epidemiological Studies –Biomarkers and Mechanistic information.

Note: [1]. G. Woloschak has prepared a partial draft, presently limited to animal studies. J. Preston will discuss this with G. Woloschak to work out a means to obtain the needed writeup on cellular (*in vitro*) data.

Section 7. Non-Cancer Effects. Notation: A.Brill has submitted a draft; it may be further revised in collaboration with R.Shore.

Section 8. Heritable Effects/ Notation: R. Chakraborty has submitted a near-complete draft; four minor subtopic additions will be added.

Section 9. Identification of New Epidemiological Data for Assessing Uncertainty in Risk Estimations. Notation: J. Boice remains assigned to this topic. The committee suggested that information about the ORNL report be included, as well as information about disease incidence and morbidity.

Again, Mort requests attention to NCRP format issues for these ensuing preparations.

Deadline: 11 June for all writing assignments to be submitted; earlier is better.

Future Next Committee Meeting: The plan is to have a full committee meeting in July/August, with contingency that all writing assignments will have been prior-completed to allow for committee overview of the draft report as a whole.