

**Radiation Workshop AGENDA**  
**RADIATION HEALTH WORKSHOP**

AGENDA

SESSION I: **Wednesday, March 7, 1990**

CHAIRMAN: W. Schimmerling

**08:30 AM                    GROUND-BASED RESEARCH**

Chairman: D. Robbins

Accelerators and their characteristics (W. Schimmerling, NASA/HQ, 10 min)  
The GSI heavy ion accelerator (G. Kraft, GSI, 10 min)  
Brookhaven facilities (V. Bond, BNL, 10 min)

What can be done at accelerators? (G. Kraft, 30 min)

**09:30 AM                    MUTATION, TRANSFORMATION AND REPAIR**

Chairman: G. Nelson

Neoplastic cell transformation (T. Yang, LBL, 15 min)  
Somatic cell mutations (A. Kronenberg, LBL, 15 min)  
Mutations in *Tradescantia* (V. Bond, BNL, 15 min)  
Chromosome studies with protons (A. Cox, BROOKS AFB, 15 min)  
Genetic effects in *C. Elegans* (G. Nelson, JPL, 15 min)  
Mechanisms of radiosensitivity (D. Chen, LASL, 15 min)

**11:00 AM                    Coffee Break (15 min)**

**11:15 AM                    DISCUSSION**

**12:15 PM                    Lunch**

**1:00 PM                    LATE EFFECTS (Mainly Carcinogenesis)**

Chairman: E. J. Ainsworth

Lifetime effects: monkey-to-man extrapolation (D. Wood, Brooks AFB, 30 min)  
Life-shortening effects in rodents (E. J. Ainsworth, AFRR, 15 min)  
Radiation carcinogenesis *in vitro* (T. Yang, LBL, 15 min)

**2:00 PM                    DISCUSSION**

**3:00 PM                    Break (15 min)**

## **Radiation Workshop AGENDA**

### **3:15 PM                    EFFECTS MORE OR LESS UNIQUE TO HZE PARTICLES (Mainly cataractogenesis, CNS effects)**

Chairman: J. Lett

Cataractogenesis (J. Lett, CSU, 15 min)

Cataractogenesis (B. Worgul, Columbia University, 15 min)

Behavioral effects in rodents (???, AFRRRI, 15 min)

Cognitive testing in primates (D. Wood, Brooks AFB, 15 min)

### **4:15 PM                    DISCUSSION**

### **5:00 PM                    End of Session I**

SESSION II:        **Thursday, March 8, 1990**

CHAIRMAN: G. Badhwar

### **08:30 AM                    SPACE-BASED RESEARCH**

Chairman: F. Sulzman

LifeSat (W. Gilbreath, NASA/HQ, 20 min)

Radiobiological effects in tentative LifeSat orbits (J. Wilson, NASA/Langley, 10 min)

Microgravity and single-event radiobiology (G. Reitz, DLR, 30 min)

Remote Biosensing (G. Taylor, NASA/JSC, 30 min)

### **10:00 AM                    Coffee Break (15 min)**

### **10:15 AM                    DISCUSSION: Radiation Biology Requirements for LifeSat**

### **12:00 PM                    Lunch**

### **1:00 PM                    PROSPECTS FOR GENETIC SCREENING AND FOR MODIFICATION OF RADIATION RESPONSE**

Chairman: D. Chen

### **2:00 PM                    Summary of Conference (W. Schimmerling)**

### **3:00 PM                    Adjourn**