

# Radiation Epidemiology Course

May 14, 2007 - May 17, 2007  
5635 Fishers Lane, Rockville MD 20852  
Room T500

## AGENDA

| Date   | Topic   | Hours                   | Speaker                       |
|--|---|-------------------------|-------------------------------|
| May 14   | Sign-in and Breakfast   | 8:30-9:00               |                               |
|  | Welcome, Introduction and Course Overview   | 9:00-9:30               | Peter Inskip                  |
|  | Principles of Radiation Physics and Dosimetry   | 9:30-11:30              | Steven Simon                  |
|  | Lunch   | 11:30-12:30             |                               |
|  | Basic Radiation Chemistry and Radiation Chemistry of DNA Damage   | 12:30-2:00              | John Ward                     |
|  | Radiobiology for the Radiation Epidemiologist   | 2:00-3:30               | David Brenner                 |
|  | Coffee break  | 3:30-4:00               |                               |
|  | Cellular Defenses Against Radiation-induced Carcinogenesis: Cell Cycle Arrest, DNA Repair and Apoptosis | 4:00-5:30               | Timothy Jorgensen             |
| May 15   | Studies of Atomic Bomb Survivors  |                         |                               |
|  | A. Overview, cohort design, cancer risk modeling  | 9:00-10:00              | Dale Preston                  |
|  | B. Cancer Incidence   | 10:00-11:00             | Elaine Ron                    |
|  | Coffee break  | 11:00-11:15             |                               |
|  | C. Non-cancer outcomes (somatic and genetic)  | 11:15-12:15             | Kiyohiko Mabuchi              |
|  | Lunch   | 12:15-1:30              |                               |
|  | Studies of Medically Irradiated Populations   |                         |                               |
|  | A. External radiation   | 1:30-2:30               | John Boice, Jr.               |
| B. Internally administered radionuclides   | 2:30-3:30   | Steven Simon/Elaine Ron |                               |
| May 16   | Environmental and Occupational Studies  |                         |                               |
|  | A. Radiation workers  | 9:00-10:00              | Ethel Gilbert                 |
|  | B. Radon  | 10:00-11:00             | Jay Lubin                     |
|  | Coffee break  | 11:00-11:15             |                               |
|  | C. Nuclear accidents  | 11:15-12:15             | André Bouville/ Maureen Hatch |
|  | Lunch   | 12:15-1:30              |                               |
|  | Risk Estimation and Description   |                         |                               |
|  | A. Descriptive models and radiation risk assessment   | 1:30-2:30               | Ethel Gilbert                 |
| B. Issues and approaches in the study of low-dose effects and Probability of Causation | 2:30-3:30   | Charles Land            |                               |
| Radiation Protection Standards   | 3:30-4:30   | Julian Preston          |                               |
| May 17   | Non-ionizing Radiation I  |                         |                               |
|  | A. Ultraviolet and Solar Radiation  | 9:00-10:00              | Margaret Tucker               |
|  | Risk Characterization and Communication   | 10:00-11:00             | Jonathan Samet                |
|  | Coffee Break  | 11:00-11:30             |                               |
|  | Non-ionizing Radiation II   |                         |                               |
|  | A. EMF (ELF and RF)   | 11:30-12:30             | Martha Linet                  |
| Adjourn  | 12:30   |                         |                               |

