

RADIATION DOSE IS MORE THAN A NUMBER!

Agenda

National Institute of Standards and Technology
100 Bureau Drive, Gaithersburg, MD
Green Auditorium
September 15 and 16, 2011

THURSDAY, SEPTEMBER 15, 2011

8:00 a.m. **ARRIVAL/SIGN IN**

8:20 a.m. **Welcome and Introductions**
NIST/NIAID/NCI

Why is Dosimetry Important?

8:30 a.m. **Biological Framework**
Dick Hill, Ontario Cancer Institute

8:55 a.m. **Physics Framework**
Mark Murphy, Pacific Northwest National Laboratory

9:20 a.m. **NIST Traceability**
Mike Mitch, NIST

9:45 a.m. **BREAK**

Current Research Portfolio Overview (*emphasis on in vitro, small animal and large animal research categories within each portfolio*)

10:00 a.m. **NIAID Rad/Nuc Program**
NIAID RAD/NUC Program Staff

10:55 a.m. **NCI Rad/Nuc Research**
NCI Program Staff

11:20 a.m. **Other Institutions**

- Chris Lissner, DOD/AFFRI,
- Noelle Metting, DOE
- Janice Huff, NASA

12:00 PM **Important Concepts in Radiobiology Dosimetry**
Will Hanson, Former Director of Radiological Physics Center, MD Anderson Cancer Center



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1:00 p.m. **LUNCH**

2:00 p.m. **NIST TOUR**
Marc Desrosiers and Mike Mitch, NIST

3:15 p.m. **BREAK**

Survey of equipment/isotopes currently in use *(Speakers to provide summary handouts)*

3:30 p.m. **Overview**
Larry Dewerd, University of Wisconsin

3:35 p.m. **Radiation source: external beam, isotope**
Dan Bourland, Wake Forest University

3:55 p.m. **Dosimetry**
Larry Dewerd, University of Wisconsin

Current Calibration and Standardization Methods

4:15 p.m. **Calibration Methods for Medical Applications of Radiation**
Larry Dewerd, University of Wisconsin
Will Hanson, Former Director of Radiological Physics Center, MD Anderson Cancer Center

4:35 p.m. **Standardization Methodologies**
Tom Seed, Tech Micro Services

4:50 p.m. **..... and How They Relate to GLP Compliance**
Mike McCreery, University of Maryland

5:00 p.m. **ADJOURN FOR THE DAY**



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FRIDAY, SEPTEMBER 16, 2011

What Can Go Wrong

8:00 a.m. **Dosimetry Bloopers**
Mike Robbins, Wake Forest University

Dosimetry case studies (*Each presentation should include scenarios and step by step “how to” guides for biodosimetry in each experimental milieu. Speakers to provide summary handouts*)

8:30 a.m. **Cell Culture Studies**
Woody Armour, Johns Hopkins University

9:00 a.m. **Small Animal Studies**
Patricia Lindsay, Princess Margaret Hospital

9:30 a.m. **BREAK**

9:45 a.m. **Large Animal Studies**
Dan Bourland, Wake Forest University
Tom MacVittie, University of Maryland

11:00 a.m. **Panel Discussion**
Workshop speakers and members of the audience

Path forward

- *Set up a web page at NIST dedicated to biodosimetry standardization to serve as a resource to the community for updated information, useful links and FAQ; website development?*
- *establishment of a quality control process to benefit any research employing radiation such as*
- *Standardization requirement for solicited research*
- *Service – NIH-based facility (RPC-like) or fee for service or private non-profit (AAALAC-like)*

1:00 p.m. **ADJOURN**

