Monday, March 10

8:30 am  Continental Breakfast

9:00 am  President’s Welcome
Robert Rushton, President, CIRMS

Welcome to NIST
James Olthoff, Deputy Director of the Physical Measurement Laboratory, National Institute of Standards and Technology

NEEDS Report
Walter Voit, University of Texas at Dallas

Dan Thoma, Los Alamos National Laboratory

9:45 am  And Now for Something Completely Different: Alternative Sources of Medical Isotopes for the Canadian Public
Raphael Galea, National Research Council Canada

10:15 am  Advanced Technologies Used in the Manufacturing and Operation of New OSL Instrumentation
Markku Koskelo, Aquila

10:45 am  Break

11:15 am  Investigation of PRESAGE as a 3D Dosimeter for Remote Auditing Applications
Mitchell Carroll, UT MD Anderson Cancer Center

11:30 am  Self-based Large-area Solid-state Neutron Detector with High Efficiency and Extremely Low Leakage Current
Kuan-Chih Huang, Rensselaer Polytechnic Institute

11:45 am  Investigation of Cherenkov Emission with Applications in Dosimetry, Image Guidance and Intensity Modulation in Radiation Therapy
Yana Zlateva, McGill University

12:00 pm  Poster Blitz

12:45 pm  Lunch

1:45 pm  Concurrent Working Group Sessions - The subcommittees of the CIRMS Science and Technology Committee will hold various Working Group sessions. These sessions will go into greater detail on specific topics and include a review of the CIRMS “Fifth Report on Needs in Ionizing Radiation” and a prioritization of those needs.
3:30 pm Break

3:45 pm **BIODOSIMETRY**  
*Chairs: Dr. Kim M. Morehouse, FDA, and Dr. William F. Blakely, AFRRI*

3:45 pm *Automation of Cytogenetic Assays using Artificial Intelligence and Neural Network Systems*  
*Dr. Adarsh Ramakumar, Scientific Research Department, Armed Forces Radiobiology Research Institute (AFRRI)*

4:10 pm *Comparative Assessment of DNA Damage Sensitivity and Repair Kinetics in PBMCs and Fibroblasts from Human and Swine Irradiated Ex Vivo*  
*Dr. Maria Moroni, Scientific Research Department, Armed Forces Radiobiology Research Institute (AFRRI)*

4:35 pm *The Development of Radiation Injury Estimation Algorithms using Blood Parameters from a Nonhuman Primate Model: A Pilot Study*  
*Dr. David Bolduc, Scientific Research Department, Armed Forces Radiobiology Research Institute (AFRRI)*

5:00 pm *Biomarker-Based Radiation Dosimetry Diagnostics*  
*Dr. George Sigal, Meso Scale Diagnostics (MSD)*

5:30 pm Adjourn

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**Tuesday, March 11**

8:30 am Continental Breakfast

9:00 am **Design of High-Performance X-Ray Irradiation Systems**  
*Frederic Stichelbaut, IBA Group*

9:30 am **Advanced Radiation Detection for the Modern Warfighter**  
*Stanley Mavrogianis, Radiation Technology Group, Naval Surface Warfare Center, Carderock Division*

10:00 am **Advanced Manufacturing at the Institute for Sustainable Materials and Manufacturing, SUNY College of Environmental Science and Forestry**  
*Mark Driscol, State University of New York ESF*

10:30 am **Poster Session; Break**

11:30 am **Concurrent Working Group Sessions** - The subcommittees of the CIRMS Science and Technology Committee will continue their Working Group sessions.
12:45 pm  Lunch
1:45 pm  Concurrent Working Group Sessions (continued)
3:30 pm  Break
3:45 pm  Randall S. Caswell Award for Distinguished Achievement in the Field of Ionizing Radiation Measurements and Standards

Stephen M. Seltzer, National Institute of Standards and Technology

5:15 pm  Adjourn
6:15 pm  Bus from Hilton Hotel to the Holiday Inn in Germantown
6:30 pm  Dinner at the Holiday Inn in Germantown

Wednesday, March 12
8:30 am  Continental Breakfast
9:00 am  Concurrent Working Group Sessions - The subcommittees of the CIRMS Science and Technology Committee will continue their Working Group sessions.

IAME:  Industrial Applications and Materials Effects
Medical Applications
RP/HS: Radiation Protection / Homeland Security

10:30 am  Poster Session; Break
11:00 am  Concurrent Working Group Sessions, continued
12:00 pm  Fundamental Radiation Effects in Aromatic Compounds
Jay LaVerne, Notre Dame

12:45 pm  Lunch
1:45 pm  Report on Needs in Ionizing Radiation
3:45 pm  Adjourn