Session Title: Radiological Reference Materials for Consequence Management of Nuclear Emergencies  
Session Chair: Dr. Stephanie Healey, Food and Drug Administration

Dr. Robert Jones, Center for Disease Control  
*CDC’S Rapid Radionuclide Bioassay Screen – Updates, New Methods, and Plans for the Future*

Dr. Evgeny Taskaev, Eckert & Ziegler Analytics  
*What is Reference Material for Radioactivity Measurements in Consequence Management*

Dr. Bill Cunningham, Food and Drug Administration  
*The Role of Reference Materials in Risk Analysis for Radionuclides in Food*

Dr. Stephanie Healey, Food and Drug Administration  
*Development of Radiological Performance Testing Program for Food Emergency Response Network (FERN) Method Development and Laboratory Competence Evaluation*

Zhichao Lin, Food and Drug Administration  
*Considerations and Approaches in Development of Food-Based Reference Materials*

3:15 PM – 3:45 PM  
Coffee Break

3:45 PM – 5:15 PM  
RED AUDITORIUM

**Joint Sessions: Medical Applications, Radiation Protection & Industrial Applications**

Session Title: Chemistry and Biology of the DNA Damage and its Modification  
Session Chair: Dr. Amitava Adhikary, Department of Chemistry, Oakland University

Dr. Michael Dingfelder, East Carolina University  
*Track Structure: Simulating the Physics and Chemistry Basis of Radiation Damage*

Dr. David Becker, Oakland University  
*A Radiation Chemistry Track Structure Model in 3D for Ion-beam Irradiated DNA*

Dr. Shubhankar Suman, Georgetown University  
*Role of Persistent DNA Damage Response in Heavy-Ion Space Radiation-Induced Carcinogenesis*

Dr. Sudipta Seal, University of Central Florida  
*Understanding the Rare Earth Nanomaterials in Mitigation Radiation in Biological Environment*

Dr. Jeffrey Buchsbaum, Radiation Research Program, National Institute of Health  
*DNA Damage and High LET Radiation and the Clinic – Biologic Dosimetry is the Goal*
Joint Sessions: Industrial Applications & Radiation Protection

Session Title: Cesium-137 Irradiators
Session Chair: Dr. Spencer Mickum, Hopewell Designs Inc.

Dr. Spencer Mickum – Hopewell Designs Inc.
*Impact from the Potential Shortage of Cs-137 Supply*

Dr. Jacob Kamen - Mount Sinai Hospital
*Successful Migration from Radioactive Irradiators to X-Ray Irradiators in One of the Largest Medical Centers in the U.S.A.*

Lance Garrison, National Nuclear Security Administration
*Development and Certification of Type B Containers for self-shielded irradiators*

Dr. Ronnie Minniti, National Institute of Standards and Technology
*Air Kerma Calibrations at NIST using Cesium-137*

Dan Aitkenhead, Best Medical
*Challenges Selling both Gamma and X-ray Blood Irradiators*

3:15 PM – 3:45 PM
Coffee Break

3:45 PM – 5:15 PM
LECTURE ROOM B

Session Name: Homeland Security and Radiation Protection
Session Chair: Dr. Stephanie Healey, Food and Drug Administration

Dr. Jack Glover, National Institute of Standards and Technology
*Proposals to Improve the Accuracy of Calculating Reference Effective Dose in ANSI N43.17 (Security Screening of Persons)*

Robert B. Hayes, North Carolina State University
*Novel Nuclear Forensics and Emergency Response Technologies*