

## American Nuclear Society - Call for Papers

[www.rpsd2010.com](http://www.rpsd2010.com)

### Radiation Protection and Shielding Division, Isotopes and Radiation Division and the Biology and Medicine Division Joint Topical Meeting - April 19-23, 2010 Palace Station Hotel and Casino, Las Vegas, NV

Full papers to be published in the ANS journal *Nuclear Technology*

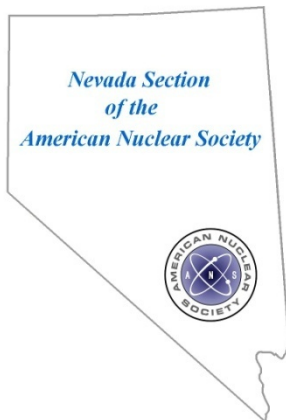
Plenary Speakers Include;

Dr. Thomas E. Booth: Intuition and Variance Reduction in Monte Carlo Simulations

Dr. John S. Hendricks: Monte Carlo: Past, Present, Future

Technical Tours of the Nevada Test Site and The Atomic Testing Museum  
Fabulous Las Vegas Nevada Tourist Amenities

Monte Carlo Tutorials: MAVRIC (SCALE), 3-D discrete ordinates in SCALE, Burnup and depletion with MCNPX, Vesta, TRIPOLI, Attila, and the truly entertaining “Monte Carlo Dice Seminar”.



#### Meeting Officials;

General Chair

Dr. Anthony Hechanova (UNLV)

Technical Program Chair

Dr. Robert B. Hayes (WIPP)

Finance Chair

Dr. David Stahl (Retired)

Logistics and Vendor Chair

Mr. Steve Curtis (UNLV)

**Author Instructions;** Please submit your extended abstract to the Technical Program Chair at [Robert.Hayes@WIPP.ws](mailto:Robert.Hayes@WIPP.ws) along with preferred track and session. Using the ANS template (<http://www.ans.org/pubs/transactions>), *initial submissions must be at least 1 full page but less than 2 full pages.* Poster presentations are allowed and will be situated in front of the catered area (attendees will have to walk by the posters to get to the coffee and doughnuts etc).

### **Important Dates**

November 23, 2009	Extended Abstracts Due
December 15, 2009	Author Notification (including <i>Nuclear Technology</i> acceptability)
February 1, 2010	Final Full Papers Due
March 15, 2010	Pre-registration Deadline
April 18, 2010	General Chairs Reception for conference attendees
April 19-23, 2010	Conference and tours of NTS, Atomic Testing Museum
April 23, 2010	SCALE, MCNPX, Tutorials, Workshops

### **Sessions Offered by Track**

**Medical Physics Track – Dr. Wayne Newhauser;** *University of Texas M.D. Anderson Cancer Center*  
Recent Advances in Brachytherapy and Molecular Imaging – **Dr. Firas Mourtada;** *University of Texas M.D. Anderson Cancer Center*  
Benchmark Problems in Radiotherapy – **Dr. Gamal Akabani;** *Texas A&M University*  
Medical Physics and Applications – **Dr. X. George Xu;** *Rensselaer Polytechnic Institute*  
Monte Carlo Simulation Methods – **Dr. J. Tim Goorley;** *Los Alamos National Laboratory*  
New Accelerator Technologies for Particle therapy – **Dr Carol Johnstone;** *Fermilab*  
Particle and Photon Beam Therapies  
Particle Facilities Under Construction  
Patient Exposure to Stray Radiation – **Dr. Bryan Bednarz;** *Massachusetts General Hospital*  
Proton Computed Tomography  
Proton Radiography – **Dr. Jeffrey S. Bull;** *Los Alamos National Laboratory*  
Recent Advances in External Beam Photon Therapy – **Dr. Michele S. Ferenci;** *Penn State Hershey Cancer Institute*  
Shielding of Proton Treatment Vaults – **Dr. Uwe Titt;** *University of Texas M.D. Anderson Cancer Center*  
Shielding Studies of Proton Accelerator Facilities  
Transport Methods for Applications in Computational Medical Physics – **Dr. Glenn E. Sjoden;** *University of Florida*

**Radiation Detection and Measurement Track – Dr. Hiroshi Nakashima;** *Japan Atomic Energy Agency*

Activation, Induced Radioactivity  
Aircraft Dosimetry  
Environmental Radioactivity  
High-Energy Accelerators - **Dr. Hiroshi Nakashima;** *Japan Atomic Energy Agency*  
Industrial Applications of Radiation  
New Radiation Detector Materials – **Dr. James E. Baciak;** *University of Florida*  
Neutron Detection Systems and Methods – **Mr. Eric Burgett;** *Georgia Institute of Technology*  
Non Destructive Analysis/Evaluation Issues – **Dr. Raymond Klann;** *Argonne National Laboratory*  
Radiation Detection and Measurement – **Dr Nicholas Tsoufanidis;** *University of Nevada in Reno*  
Radiation Imaging – **Dr. Rebecca Detwiler;** *University of Florida*

**Radiation Shielding Track – Dr. Jeffrey O. Johnson;** *Oak Ridge National Laboratory*  
Accelerator Shielding – **Dr. Pedro Vaz;** *Instituto Tecnológico e Nuclear*  
Benchmark Experiments and Analyses – **Dr. Nolan Hertel;** *Georgia Institute of Technology*  
Buildup Factors – **Dr. Donald J. Dudziak;** *North Carolina State University*  
Electron Facilities Accelerators  
Fission Reactor and Fuel Cycle Facility Shielding  
Fusion Reactor Shielding – **Dr. John C. Wagner;** *Oak Ridge National Laboratory*  
General Shielding Applications  
Radiation Shielding in Aeronautics and Space Missions – **Dr. Lawrence Heilbronn;** *University of Tennessee*  
Shielding Benchmarks – **Mrs. Bernadette Kirk;** *Radiation Safety Information Center*  
Shielding Design and Experiments  
Shielding of Spallation Sources and Related Facilities  
Shielding of Synchrotron Light Sources  
Transportation, Storage and Shielding of Radioactive Sources – **Dr. Charlotta Sanders;** *Sanders Engineering*  
Waste Container and Storage Shielding

**Radiation Protection Track – Dr. Kimberlee Kearfott;** *Michigan State University*  
Advanced Phantoms for Radiation Dosimetry – **Dr. Wesley E. Bolch;** *University of Florida*  
Dosimetry and Radiation Protection Issues  
Environmental Aspects of Dispersion of Radioactive Materials  
Impact of Radiation and Radioactivity on the Environment  
Operational Health Physics – **Dr. Peter F. Caracappa;** *Rensselaer Polytechnic Institute*  
Radiation Protection  
Radiation Protection Regulations and Standards – **Mr. Morgan Cox;** *Safety and Ecology Corp.*  
Radiation Protection Issues and Methods for Deep Space Exploration – **Dr. Larry Townsend;** *University of Tennessee*  
Radiological Engineering  
Waste Management and Facility D&D

**Radiation Transport Calculations Track – Dr. John C. Wagner;** *Oak Ridge National Laboratory*  
Analytical Methods – **Dr. Barry Ganapol;** *University of Arizona*  
Deterministic Methods and Applications: Hybrid Methods – **Dr. Alireza Haghghat;** *University of Florida*  
Methods and Applications for Homeland Security and Safeguards  
Monte Carlo Methods and Applications – **Dr. Cassiano de Oliveira;** *University of New Mexico*  
Nuclear Data – **Dr. Morgan C. White;** *Los Alamos National Laboratory*  
Nuclear Modeling for Heavy Charged Particle Transport – **Dr. Thomas M. Miller;** *Oak Ridge National Laboratory*  
Radionuclide Transport in the Environment  
Sensitivity/Uncertainty Methods and Applications – **Dr. Mark Williams;** *Oak Ridge National Laboratory*  
Skyshine, Streaming, and Albedo Calculations – **Dr. Thomas Booth;** *Los Alamos National Laboratory*  
Transmutation Issues  
Transportation Characterization Calculations  
Uses of Monte Carlo Calculations for NTS Operations – **Dr. Ping Lee;** *National Security Technologies*  
Visualization and User Interfaces – **Dr. Kenneth A. Van Riper;** *White Rock Science*

**UNLV Special Sessions in Radiochemistry–Dr. Ralf Sudowe;** *University of Nevada, Las Vegas*  
Advanced Fuel Cycles - Separations - **Dr. Patricia Paviet-Hartmann;** *University of Nevada, Las Vegas*  
Advanced Fuel Cycles - Fuels - **Dr. Thomas Hartmann;** *University of Nevada, Las Vegas*  
Advanced Fuel Cycles - Waste Forms - **Dr. Gary Cerefice;** *University of Nevada, Las Vegas*  
Current Status, Trends and needs in Radiochemical Education – **Dr. Rolf Zeisler;** *NIST*  
Environmental Radiochemistry - **Dr. Ralf Sudowe;** *University of Nevada, Las Vegas*  
Nuclear Forensics – **Dr. Ken Czerwinski;** *University of Nevada, Las Vegas*  
Radiolabing for Nuclear Medicine