

## Monday, March 5, 2018

### Opening Session

- 8:10 am **Presentation of the Colors**  
Joint Armed Forces Honor Guard  
from the Military District of  
Washington, DC
- Singing of the National Anthem**  
Kimberly Gaskins  
*U.S. Nuclear Regulatory Commission*
- 8:15 am **NCRP Welcome**  
John D. Boice, Jr.  
*President, NCRP*
- 8:20 am **A Radiation Wish List from  
Jennifer: Gadgets, Radiation  
Statements, and Insta-Reports**  
Kate Niehaus  
*Memorial Sloan Kettering Cancer  
Center*

### Fifteenth Annual Warren K. Sinclair Keynote Address

- 8:30 am **Jus•tified and Com•men•su•rate**  
Marvin Rosenstein  
*National Council on Radiation  
Protection and Measurements*

### Dose, Benefit, Risk, and Safety

Lawrence T. Dauer & Helen A. Grogan,  
*Session Co-Chairs*

- 9:00 am **Radiation in Medicine: Current and  
Future Trends**  
Fred A. Mettler, Jr.  
*University of New Mexico School of  
Medicine*
- 9:15 am **Effective Dose and Alternatives**  
Jerrold T. Bushberg  
*University of California Davis School  
of Medicine*

- 9:30 am **Benefit and Risks**  
Pat B. Zanzonico  
*Memorial Sloan Kettering Cancer  
Center*

- 9:45 am **Quality and Safety Initiatives**  
Mythreyi Chatfield  
*American College of Radiology*

- 10:00 am **Q&A**

- 10:30 am **Break**

### Diagnostic X-Ray Imaging

Linda Kroger & Mahadevappa Mahesh,  
*Session Co-Chairs*

- 11:00 am **Projection X-Ray Imaging  
(Radiography, Mammography,  
Fluoroscopy)**  
J. Anthony Seibert  
*University of California Davis Health*
- 11:15 am **Computed Tomography  
Technology – and Dose – in the  
21st Century**  
Cynthia H. McCollough  
*Mayo Clinic*
- 11:30 am **Doses, Benefits, Risks and Safety  
in Oral and Maxillofacial  
Diagnostic Imaging**  
Alan G. Lurie  
*University of Connecticut School of  
Dental Medicine*

- 11:45 am **Q&A**

- 12:15 pm **Lunch**

### Nuclear Medicine & Radiation Oncology

Polly Y. Chang & Pat B. Zanzonico, *Session  
Co-Chairs*

- 1:30 pm **Radiopharmaceutical Therapy**  
George Sgouros  
*Johns Hopkins University School of  
Medicine*

## Summary

- 1:45 pm **Dose Optimization of Hybrid Imaging**  
Frederic H. Fahey  
*Boston Children's Hospital & Harvard Medical School*
- 2:00 pm **Radiation Oncology: External Beam Radiation Therapy**  
Melissa C. Martin  
*American Association of Physicists in Medicine*
- 2:15 pm **Brachytherapy**  
Bruce Thomadsen  
*University of Wisconsin School of Medicine and Public Health*
- 2:30 pm **Q&A**
- 3:00 pm **Break**

### Dialogue and Shared Decision Making

Randall N. Hyer & Julie E.K. Timins,  
*Session Co-Chairs*

- 3:30 pm **Effective Stakeholder Communications Methods: The Power of Planned Persuasive Messaging**  
Jessica S. Wieder  
*U.S. Environmental Protection Agency*
- 3:45 pm **Patient Perspectives on Dialogue and Shared Decision Making**  
Lawrence T. Dauer  
*Memorial Sloan Kettering Cancer Center*
- 4:00 pm **Optimizing Patient Informed Decision Making: Examples from Pediatric and Emergency Care**  
Kimberly E. Applegate  
*University of Kentucky*
- 4:15 pm **Pediatric Population**  
Maria Perez  
*World Health Organization*
- 4:30 pm **Q&A**

- 4:45 pm **Break**

### Forty-Second Lauriston S. Taylor Lecture on Radiation Protection and Measurements

- 5:00 pm **Introduction of the Lecturer**  
R. Julian Preston
- Radiation Dosimetry Research for Medicine and Protection: A European Journey**  
Hans-Georg Menzel
- 6:00 pm **Reception**  
Sponsored by Landauer, Inc.

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## Tuesday, March 6

- 8:15 am **NCRP Annual Business Meeting**
- 9:30 am **Break**

### Second Thomas S. Tenforde Topical Lecture

- 9:45 am **Do the Epidemiologic Data Support Use of the Linear Nonthreshold Model for Radiation Protection?**  
Roy E. Shore

### Fostering Innovations

Kimberly E. Applegate & Donald L. Miller,  
*Session Co-Chairs*

- 10:15 am **Medical Physics 3.0 to Ensure Quality and Safety in Radiation Medicine**  
Ehsan Samei  
*Duke University / American Association of Physicists in Medicine*



# Radiation Protection Responsibility in Medicine

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10:35 am **Advancing Safety and Equipment Design**  
Keith Strauss  
*Cincinnati Children's Hospital Medical Center*

10:55 am **How Innovations in Computer Technologies Have Impacted Radiation Dosimetry Through Anatomically Realistic Phantoms and Fast Monte Carlo Simulations**  
X. George Xu  
*Rensselaer Polytechnic Institute*

11:15 am **Q&A**

11:30 am **Break**

## Conclusions and Path Forward

Lawrence T. Dauer & Donald P. Frush,  
*Session Co-Chairs*

11:45 am **Radiation Protection Responsibility in Medicine: A Wrap Up**  
Donald P. Frush  
*Duke University Medical Center*

12:00 pm **NCRP Vision for the Future and PAC Activities**  
John D. Boice, Jr.  
*President, NCRP*

12:30 pm **Adjourn**