

# Arizona Chapter of the AAPM (AzAAPM): From Past to Present

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April, 2013: Our first annual meeting

**March, 2000: First recorded meeting – AzAAPM is born!**

**July, 2012: Formal recognition of AzAAPM as an official chapter**

**April, 2013: First annual meeting of the AzAAPM**

**Throughout their history, the Arizona chapters of both AAPM and HPS (AHPS) have enjoyed a close, collaborative relationship, including holding joint meetings and co-sponsoring larger meetings for their parent organizations in Arizona.**

## Meeting Presentations and Topics

**2000: Deconstructing Linearity**  
Fetal Dose Assessment by Monte Carlo Techniques  
IMRT Topics

**2001: PET Clinical Uses**  
Design of a PET Clinic  
Radiation Protection and Precautionary Principles

**2002: HPS is about Education**  
Intraoperative Radiation in an Unshielded Operating Room

**2003: Health Physics Society Strategic Plan and Important Initiatives**

**2004: Essential Physics of Electron Beam Dosimetry: Do We Need the Full Monte?**  
Monte Carlo Methods in Accelerator Shielding Design  
Dirty Bombs Extraordinaire: Arizona's Response for Homeland Security

**2005: Stereotactic Radiosurgery and Radiotherapy**  
Monte Carlo Calculations of a PET Facility Design  
Bexxar I-131 Antibody Therapy: Preparation, Administration and Subsequent Release  
PET Center Design Using the New AAPM Guide for Shielding  
Tomotherapy: Delivering Image Guided and Intensity Modulated Radiation Therapy  
IAEA: Safety and Security of Radioactive Sources

**2007: Review of Medical Management of Acute Radiation Syndrome**  
Responding to Emergencies at Palo Verde  
Training Opportunities in Medical Physics, Radiation Protection, and Radiation Therapy in Arizona

**2008: Rapid Arc: The next advance in IMRT**  
State Legislature Proposes Changes to the ARRA  
Partial Breast Irradiation  
Why No One Believes Us: Cognitive Neuroscience and Radiation Risk  
Will they ever learn? The public education game

**2009: Positron Emission Mammography**  
The Physics of PEM and PEM Guided Biopsy  
Cyberknife: A Physicist's Primer  
New concepts in Radiological Emergency Planning

**2010: Activities of the ICRP Committee 2 in Implementing ICRP 2007 Recommendations**  
Safety Developments in Linear Accelerator Design  
Radiation Safety in Imaging and Therapy  
Pit Disassembly and Conversion Project: Radiological Design Considerations  
The Physics of Airport Security: Are Scanners Safe?

**2011: Impact of Deformable Registration in Radiation Oncology**  
Best Practices in Radiation Therapy

**2011 (cont'd): Medical Isotope Production**  
Current and Future Clinical uses of Imaging Isotopes  
Creation of AAPM Arizona Region Chapter  
Cancer as a Disease of Complexity: Implications for LNT and Radiation Protection  
Patient Identification and Tracking by RFID  
Grassroots Preparedness, a Radiation Risk Scale, and Marketing of Health Physics  
Clinical Physics of Miniature eBx X-ray Sources

**2012: Patient Dose Reduction Efforts with Diagnostic Imaging at Mayo Clinic Arizona**  
AAPM Initiatives: 2012 and Beyond  
Status of the Arizona Radiation Regulatory Agency  
Airport Security Scanners: An Update  
Proton Therapy Project at Mayo Clinic Arizona

**2013: MR Guided Radiotherapy**  
90Y Therapies in Development  
Gating with the Catalyst System  
Reducing Patient Dose with CT  
Dose Impact for Sub-Millimeter Collimator Size Difference  
National Error Reporting System  
Agility 160 Leaf MLC: Design to Dosimetry  
Minimally Invasive Brachytherapy for Macular Degeneration  
Safety in Radiotherapy: What is Working?  
Composite Shielding Barriers for Space Limited Rooms