

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