

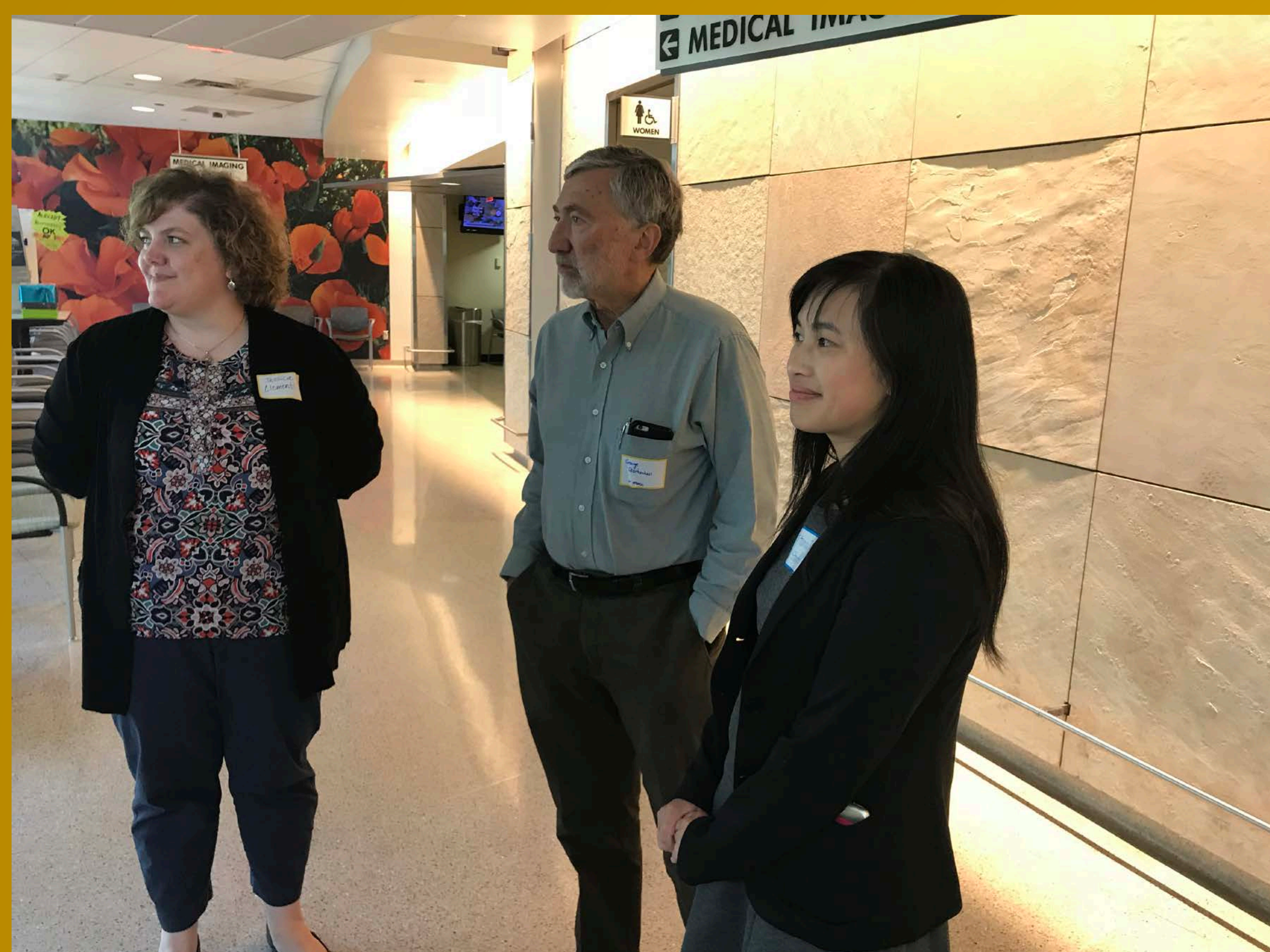
Arizona Chapter of the AAPM (AzAAPM): From Past to Present



Ed Clouser, MS (President, AzAAPM); Jiajian Shen, PhD, (Secretary/Treasurer, AzAAPM),
Christopher Watchman, PhD, FAAPM (Past President, AzAAPM, Board Rep, AzAAPM)

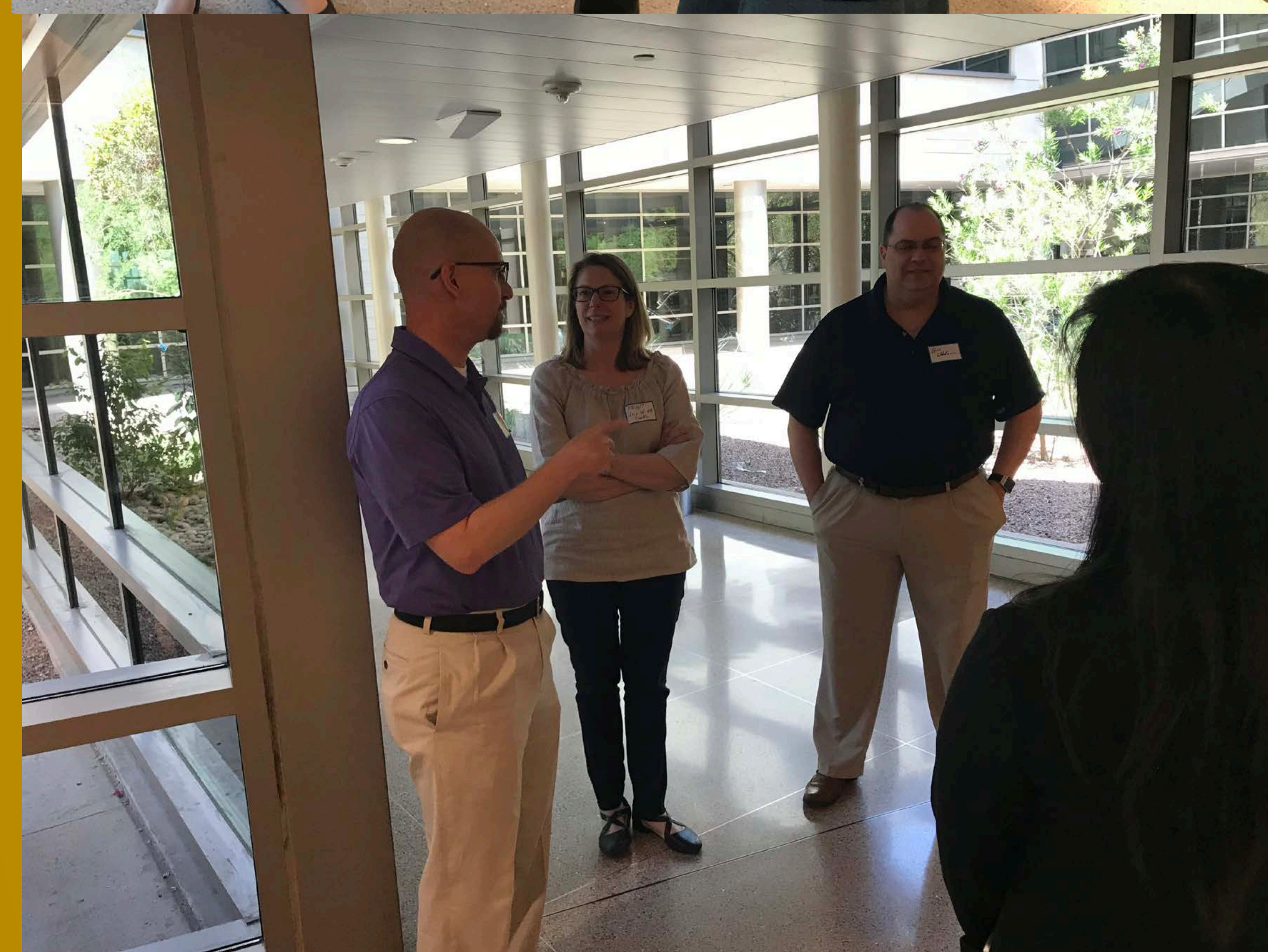
6th Annual Arizona Chapter of AAPM Annual Meeting

Speakers: Jessica Clements, George Starkschall,
Titania Juang, and Kristi Hendrickson



Chapter Officers (from left to right): Jiajian Shen, PhD, (Secretary/Treasurer),
Ed Clouser, MS (President);
Christopher Watchman, PhD, FAAPM (Past President, Board Rep);
Tariq Mia, FAAPM, FASTRO, FACR (Board Rep);
Steve Sapareto, PhD, FAAPM, (Past President)

Not in the photo:
Erdal Gurgoze, PhD (Past Secretary/Treasurer)



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

2014: Implement of CT dose reporting in the University of California System

CT Dose Reduction at the Mayo Clinic Scottsdale
MR Implementation in Radiation Therapy
Implementation of FFF on Varian and Elekta Linear Accelerators
Commissioning TomoTherapy with ArcCheck following the TG-119 rotocol
A Shell model for Calculating BED as a Function of Tumor Volume
Evaluation and comparison the doses differences between TG-43 Line
Source and Point Source methods for COMS plaque brachytherapy
Using Statistical Process Control for QA
IMRT QA, what are the options beyond gamma analysis?
IMPT Proton Planning
QA for a Proton Scanning Pencil Beam
Robust Optimization for Proton Planning
QA Tools for Linear Accelerators
HDR Brachytherapy Current and Future Developments

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

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

April 28, 2018: Sixth annual meeting of the AzAAPM

2015: MR Linac

IG and Treatment Planning in Era of Digital Linacs
TG-109 Code of Ethics
ASTRO/ACR Radiation Oncology Accreditation
Optical Surface Scanning System
4D MRI for Motion Management
Advanced IQ Scripts in Mosaic for Clinical Workflow

2015: Fall Meeting at Davis Montham Air Force Base

Air Force Industrial Radiation Safety Program Management
Gamma Pod: Dedicated System for Early Stage Breast Cancer Therapy

2016: MR-Guided Linac at MD Anderson Cancer Center

Novel Developments to Expedite Quality Treatment Care with TomoTherapy
Report Card on Roils
Pediatric CT
CT Lung Cancer Screening: Why and How from Radiologists Perspective
Radiation Dose Estimates with CT: Screening for Lung Cancer
Insight into Treatment Dose Delivery Using In-vivo Dosimetry and Adaptive Dose Recalculation

2016: Resident Session

The Use of Protons for HA-WBRT
Evaluation of Impact of an External Breast Shield in Electronic Brachytherapy for Breast IORT: A Phantom Study
Clinical Evaluation of FFF Mode Delivery
A Retrospective analysis of isocenter coincidence between Exactrac and MV delivery on a Varian 21iX
SRS and V12: What do we know before we plan?
Physics Consideration for First Extremely High Dose I-131 Clinical Trial
Analysis of Sensitivity of Error Detection in the Initial Physics Chart Check
A Clinically Relevant IMRT QA Workflow: Design and Validation



2017: Developments in MRgRT – Sasa Mutic – Washington University

The First Year with ViewRay: Commissioning and Initial Clinical Experience – Kyle Padgett – U of Miami
Digital Security in Hospital Computer Systems, Robert Rost, Banner Health

Using the Dose Deviation Index to Drive Quality Improvement in Radiography: Musing from the Co-Chair of AAPM TG-232 – A. Kyle Jones, MD Anderson

Dynamic Non-coplanar Treatments for Intracranial Radiosurgery – Lisa Hampton– Varian Medical Systems

Dosimetry and Response Assessment Following 90Y Microsphere Therapy - Cheenu Kapadath, MD Anderson

Proton Beam Therapy at Mayo Clinic Arizona - A Physics Perspective - Martin Bues, Mayo Scottsdale

AAPM Governance Assessment Project– Laura Cervino, UC San Diego
Advanced Radiation Techniques - The Veterinary Perspective – Eric Boshoven, MD

2018 Program (04/28/2018):

Ethics and the Residency match - Kristi Hendrickson, Ph.D., U.W. Seattle

New approaches to teaching medical physics: What have you done for your students lately? - George Starkschall, Ph.D., U.T. - M.D. Anderson

Education in Medical Physics - A Learners point of view - Titania Juang, Ph.D. Stanford

Governance - What does the AAPM Clinical Practice Committee do for you? - Jessica Clements, M.S., Kaiser Permanente L.A.

Determining gamma criteria for IMRT QA by analyzing LINAC and dosimetry system uncertainty - Justin Gagneur, M.A., Mayo Clinic Arizona

Identifying and Correlating Error Trends through Physics Chart Checking – Evan Silverstein, Ph.D. Mayo PGY1 Resident

A New Automated Platform for Independent Dose Check and Pretreatment QA - Amir Sadeghi, Ph.D. Banner Health

MRI for Radiation Oncology: From spatial integrity to MR only simulation and beyond. Lizette Warner, Ph.D., Philips

RO-ILS – What we've Learned. Gary Ezzell, Ph.D. Mayo Clinic Arizona