



GLC Beginnings and Membership

The Great Lakes Chapter of the American Association of Physicists in Medicine was founded in 1976. Our chapter draws its membership from throughout Michigan, northwest Ohio, and Ontario, Canada. We are fortunate to have a large group of members engaged at the local and national levels of our profession. Additionally, the Great Lakes Chapter boasts 25 fellows of the AAPM.

GLC Residency Cross Training Initiative

The GLC AAPM has initiated a GLC Physics Residency Cross Training Program that allows greater educational opportunities and collaboration for the physics residents in the Great Lakes Chapter region.

Participating residency programs include:
Henry Ford Health, Karmanos, Corewell Health, Windsor Regional Cancer, University of Michigan and University of Toledo.

Rotations include: Proton Therapy, MR adaptive therapy, Gamma Knife, TSET/TBI



GLC Meetings

The GLC hosts three meetings a year. The 2022 Annual Meeting was held in person and was hosted by Henry Ford Health at the Brigitte Harris Cancer Pavilion in Detroit. The featured speaker was Dr. Neelam Tyagi from Memorial Sloan Kettering who presented on “MR-guided adaptive radiotherapy: current status, challenges and potential solutions”. An entertaining point counterpoint on the benefits of high field MR was presented by Anthony Doemer and Joshua Kim.

2022 GLC-AAPM Annual Meeting

Thursday, December 8th, 4:45 pm – 8:00 pm EST

- 4:45 pm Welcome and Gather at the Brigitte Harris Cancer Pavilion 2800 W Grand Blvd, Detroit, MI
- 5:00 pm Groups of 10 tour through the Brigitte Harris Cancer Pavilion Henry Ford Hospital
- 6:00 pm Dinner & Drinks - Atrium
- 6:20 pm Welcome Gold Sponsor Vendor presentations
- 6:30 pm MR-guided adaptive radiotherapy: current status, challenges and potential solutions
- 7:15 pm // It is going to be a great day !!
- 7:20 pm Point-counterpoint: High field MR provides greater potential benefit for MRIGRT



GLC AAPM members enjoying complementary food and beverages; (top right) Featured speaker Dr. Neelam Tyagi; (bottom left) Honoring our previous officers (Danielle Lack, Michael Hubert, Choonik Lee, Stephen Gardner)

GLC Meetings

The MedPhys preliminary competition was held on March 23, 2023. The 1st place winner was Andrea Bisutti, a physics resident at Henry Ford Health, who will represent at the 2023 MedPhys Slam.



1st Place: Andrea Bisutti, MS. (Henry Ford)
2nd place: Doris Rusu (Wayne State)

2022 Spring Meeting & Young Investigators Symposium

Thursday, May 26th, 2022, 4:30 PM

4:30 pm Registration and Vendor visits	Karen Snyder GLCAAPM President Elect
5:00 pm Welcoming remarks	Jinzhong Yang
5:05 pm Invited Presentations	
5:05 pm MR-guided adaptive radiotherapy with a 1.5 Tesla MR-Linac: Workflow and QA concerns	Ian Gallagher Jenn Dolan
5:25 pm CT-Based Online Adaptive Radiation Therapy on the Varian Ethos Platform	Ralph Lieto
5:45 pm MR-Guided Adaptive Radiotherapy on the ViewRay MRIdian	
6:05 pm Q&A with the panel	
6:15 pm Michigan HB 5116 and Other Regulatory Items for the Medical Physicist	

			
Jinzhong Yang MR-guided adaptive radiotherapy with a 1.5 Tesla MR-Linac: Workflow and QA concerns	Ian Gallagher CT-Based Online Adaptive Radiation Therapy on the Varian Ethos Platform	Jenn Dolan MR-Guided Adaptive Radiotherapy on the ViewRay MRIdian	Ralph Lieto Michigan HB 5116 and Other Regulatory Items for the Medical Physicist

Young Investigator Symposium talks	Adrian Nalichowski GLCAAPM President
6:35 pm Applicability of Ionizing Radiation Acoustic Imaging (IRAI) for 3D Dosimetry	Noora Ba Sarbul
6:45 pm Variability of Inter-fraction Target Motion During Conventional and Hypofractionated Lung Radiation Therapy	Andrea Bisutti
6:55 pm Development and Evaluation of an EGSRc-based Monte Carlo Model of an MR-Guided Linear Accelerator	Thomas Etienne
7:05 pm Feasibility of Predicting COVID-19 Mortality using Lung CT scans in a Machine Learning Based Framework	Dhravid Kumar
7:15 pm Voxel-based Estimation of Microstructure Characteristics of Head and Neck Cancers using Time-Dependent MR Diffusion Weighted Imaging and a Random Walk with Barriers Model	Siamak Nejad
7:25 pm Gold Sponsor Presentation: Sun Nuclear & ViewRay Monte Carlo based continuous aperture optimization for VMAT on MR-linacs	Shiqin Su
7:35 pm Explainable GRU-Survnet Using Longitudinal Quantitative Imaging Biomarkers From MRI and PET for Local Failure in Poor-Prognosis Head and Neck Cancer	Lise Wei
7:45 pm Multicriteria optimization applied to proton arc therapy problem	Sophie Wuyckens
8:05 pm An iterative resampling approach for craniospinal irradiation (CSI) dynamic irradiation method	Lewei Zhao
8:15 pm Vendor visits	
8:25 pm Awards and Closing Remarks	Adrian Nalichowski GLCAAPM President

The 2022 GLC-AAPM Spring meeting and Young Investigators Symposium invited guest speakers presenting on three adaptive radiotherapy platforms: Elekta Unity, Varian Ethos, and ViewRay MRIdian.



2022 GLC YIS participants
(From left) Liwei Zhao, Lise Wei, Shiqin Su, Dhravid Kumar, Thomas Etienne, Siamak Nejad, Sophie Wuyckens

From the Archives

30 years ago, in 1993, the GLC-AAPM hosted presentations at the annual meeting highlighting MRI in diagnostic and radiotherapy applications. James Pipe, PhD (now Professor of Radiology at Mayo Clinic) and Randell Ten Haken, PhD (FAAPM, 1997)



The Great Lakes Chapter - AAPM

Barbara Orton President
Peter Roberson President-Elect
Cheryl Culver Secretary
Susie Garzon Treasurer
Walt Nikesch Board Rep.

Monday, October 25, 1993

PROVIDENCE HOSPITAL
DOCTOR'S DINING ROOM
(see enclosed map)

5:00 - 6:00 PM Refreshments

6:00 PM Diagnostic Applications of Magnetic Resonance Imaging
James Pipe, Ph.D.
Department of Radiology
Harper Hospital

MRI in Radiotherapy Treatment Planning
Randell Ten Haken, Ph.D.
Department of Radiation Oncology
University of Michigan

2023 GLC Officers



(From left): Karen Chin Snyder(President), Ian Gallagher (President-Elect), Vrinda Narayana (Secretary), Donovan Bakalyar (Treasurer), Alan Mayville (Treasurer-Elect), Brett Miller (Board Representative), Michael Huberts (Webmaster)

For more information visit our website:

