

Leo Ding Ning (Winston) Wen
President President-Elect

Brett Miller Treasurer Siamak Nejad-Davarani Secretary Chadd Smith Representative

2020 Young Investigators Symposium

Thursday, May 28th 2020, 5:00 - 9:00 PM

First ever GLC AAPM virtual meeting

We invite all GLC members and friends to join us for the annual Young Investigators Symposium to encourage and promote promising student research.



2019 GLC AAPM Young Investigators Symposium

Registration for all attendees will be FREE

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2020 Young Investigators Symposium Thursday, May 28th 2020, 5:00 – 9:00 PM

5:00 pm			Ning (Winston) Wen, Ph.D. GLC-AAPM President-Elect	
5:10 pm	Recent developments and trends in diagnostic x-ray imaging and AAPM's role in advancing medicine of the future James T. Dobbins III, Ph.D., FAAPM AAPM President-Elect			
6:00 pm	Q & A with Dr. Dobbins		Moderator: Ning (Winston) Wen, Ph.D.	
6:15 pm	Coffee break			
6:20 pm	Young Investigators Symposium talks (I)		Moderator: Ning (Winston) Wen, Ph.D.	
	6:20 pm	Ionized Radiation Acoustic Imagi	ng (iRAI) for in-vivo FLASH dosimetry Noora Ba Sunbul	
	6:28 pm	A deep learning cardiac substapplications	ructure pipeline for MR-guided cardiac Eric Morris	
	6:36 pm	A multi-phase cross-modality deformable image registration v	deformable bio-tissue phantom for alidation An Qin	
	6:44 pm	Predicting contrast enhance replacement CT using machine le	ment in transcatheter aortic valve earning Erin Macdonald	
	6:52 pm	The development of an accurate model of spot-scanning treatment delivery time for a compact superconducting synchrocyclotron proton system Lewei Zhao		
7:00 pm	Questions for YIS presenters (I)		Moderator: Ning (Winston) Wen, Ph.D.	
7:10 pm	Gold Sponsor Presentations		Jim Ernsberger - Sun Nuclear Christine Smith - IBA	
7:20 pm	Young Investigators Symposium talks (II) Moderator: Leo Ding, Ph.D.			
	7:20 pm Creation of an automated hand-crafted radiomics methodology and assessment of its potential to contribute to a prospective trial Eric (

	7:28 pm	Multi-temporal resolution model-bas breathing and slow drifting motion in	·
	7:36 pm	Evaluation of an IMRT optimization m patient-specific toxicity tradeoffs in N	• •
	7:44 pm	A multimodality approach using deep attention convolutional neural networks for intrahepatic recurrence localization of liver cancer post-SB Lise W The effect of image reconstruction on the quantification of transient ischemic dilation in rest-stress Tc-99m myocardial SPECT studies Joseph Stein	
	7:52 pm		
8:00 pm	Questions for YIS presenters (II)		Moderator: Leo Ding, Ph.D.
8:10 pm	Closing remai	rks	Leo Ding, Ph.D. GLC-AAPM President

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Our **virtual booth** is now open.

Take a Tour **②**



Quick Videos Timely Webinars Helpful Resources

Since we're unable to meet at the usual conferences & chapter meetings, we invite you to learn what's new from Sun Nuclear — at your convenience.

From faster QA workflows and remote accessibility to flexible support, we have some important advances we're eager to share. In the meantime, we just want to say: **thank you.**





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- Machine learning*
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- Deep-learning organ segmentation
- Plan evaluation
- Robust evaluation
- Radiobiological evaluation
- Virtual simulation

- Carbon-ion PBS optimization

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- Robust optimization and evaluation
- PBS optimization with apertures/MLC
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- Simulated organ motion
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- BNCT treatment plans creation

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- Monte Carlo dose calculation
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- Robust optimization
- Co-optimization of multiple beam sets
- Radiobiological optimization

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- 3D-CRT
- IMRT
- VMAT TomoTherapy
- Stereotactic planning
- MR-based planning

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- Deformable registration
- Dose tracking
- Adaptive replanning