



The State of Texas Chapter of the Health Physics Society

Friday, April 22nd, 2022

Schedule of Events



9:00 AM - 10:00 AM	Fundamental Physics of MRI and fMRI	Dr. Greg Harrington, Baylor Scott and White
10:00 AM - 10:45 AM	Fundamental Physics of SPECT Imaging	Dr. Laura Flowers, Trinity Physics Consulting
10:45 AM - 10:55 AM	Short Break	
10:55 AM - 11:40 AM	Fundamental Physics of PET Imaging	Dr. Laura Flowers, Trinity Physics Consulting
11:40 AM - 12:40 PM	Lunch	
12:40 PM - 1:40 PM	Fundamental Physics of Ultrasound and Photoacoustic Imaging	Dr. Richard Boussard, The University of Texas MD Anderson Cancer Center
1:45 PM - 2:55 PM	Fundamental Physics of of Computed Tomography (CT)	Dr. Jessica Nute, the University of Texas Health Science Center, San Antonio
2:55 PM - 3:10 PM	Short break	
3:10 PM - 3:30 PM	Affiliate Presentation	ARDT
3:30 PM - 4:00 PM	Affiliate Presentation	Bionomics
4:15 PM - 6:00 PM	STC HPS Executive Meeting	



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Saturday, April 23rd, 2022

Schedule of Events



9:00AM - 9:30 AM	Development and validation of a population based anatomical colorectal model for radiation dosimetry in late effects studies of childhood cancer survivors	Constance Owens, Graduate Student, Graduate School of Biomedical Sciences
9:30 AM - 10:00 AM	Nondestructive characterization of Pu-239 with coincidence and anticoincidence methods	Conny Egozi, Graduate Student, The University of Texas at Austin
10:00 AM - 10:30 AM	Affiliate Presentation: Ludlum	Dru Carson, Ludlum
10:30 AM - 11:00 AM	Beryllium-7 contamination modeling and considerations for the Oak Ridge National lab Spallation Neutron Source	Jordan Hillis, Graduate Student, Texas A&M University
11:00 AM - 11:25 AM	Dosimetry Effects of Radiation on White Blood Cells: Investigating How Protons Impact Granulocytes, Agranulocytes, and Plasmids Using Monte Carlo Techniques	Jaanak Prashar, Jordan High School, State of Texas Chapter Science Fair Winner from the Texas Science & Engineering Fair
11:25 AM - 11:55 AM	Affiliates Presentation: Quantum Technical Services	
11:55 AM - 1:00 PM	Awards Presentation and Lunch Time	
1:00 PM - 1:40 PM	Advanced SPECT Applications: Quantitative SPECT and Therapeutics	Dr. Cheenu Kappadath, The University of Texas MD Anderson Cancer Center
1:40 PM - 2:45 PM	The Effects of Diagnostic Energy Radiation Fields on Electronics in Wearable and Implanted Medical Devices	Dr. Robert Baumann, Radiosity Solutions