

Applied Physics and Materials Science

Session **M**

Room: 125 Steele

1:20 - 1:40 PM	Muhammed Halil <i>Dr. David G. Goodwin SURF Fellow</i>	Spatiotemporal dispersion analysis and theoretical model fitting of self-excited dust acoustic waves in cryogenic water-ice plasma	Paul M. Bellan <i>Professor of Applied Physics</i>
1:40 - 2:00 PM	Annie W. Zhao <i>Mary Atwater SURF Fellow</i>	Langmuir probe for Caltech Water-Ice Dusty Plasma Experiment	Paul M. Bellan <i>Professor of Applied Physics</i> Jessica C. Gonzalez <i>Graduate Student in Applied Physics</i>
2:00 - 2:20 PM	Tara T. Zhan <i>Larson Scholar</i>	Thermal imaging with a temperature-sensitive polymer using electrical impedance tomography	Chiara Daraio <i>G. Bradford Jones Professor of Mechanical Engineering and Applied Physics; Investigator, Heritage Medical Research Institute</i> Brian Ahn <i>Graduate Student in Bioengineering</i>
2:20 - 2:30 PM	BREAK		
2:30 - 2:50 PM	Sophia X. Chen <i>Saul and Joan Cogen Memorial SURF Fellow</i>	Development of a sample mount and high dynamic range power meter for ytterbium-based quantum interfaces	Andrei Faraon <i>William L. Valentine Professor of Applied Physics and Electrical Engineering</i> Erin Liu <i>Graduate Student in Applied Physics</i>
2:50 - 3:10 PM	Ella Guo <i>Kirk and Marjory Dawson Family SURF Fellow</i>	Engineering a cryogenic cold finger for high-frequency characterization of superconducting microwave resonators	Joseph L. Falson <i>Assistant Professor of Applied Physics and Materials Science; William H. Hurt Scholar</i> Sandra Glotzer <i>Graduate Student in Materials Science</i>