

NASA/HEAT Rice U Status Report – November 2022

Patricia H. Reiff, Rice University

- *Eclipse Workshop, CAST Teacher meeting*

On October 11, we held an eclipse workshop at CAST (Science Teachers Conference of Texas), with 30 participants (aided by MST teachers Jimmy Newland and Carlton Colmenares). From November 10-12, 2022 we held in-dome eclipse trainings for a total of 217 teachers trained. (booth paid for by my cooperating company MTPE, Inc.). We gave away more than 4000 eclipse glasses (each teacher in the trainings got a pack of 25 plus links to eclipse information).

Workshop:



Booth:



Participants:

Teachers: trained in workshop or in dome (scanned): 218
Others getting info at booth (scanned): 315

- ***“Ducks on the Air”***

Reiff gave a presentation November 15 (via zoom) on Ham Radio and space weather to the “Ducks on the Air”, University of Oregon ham radio club, invited by Scott Rosenfeld N7JI.

- ***“Physics of Ham Radio” Class finishes***

With crucial sponsorship from HEAT, we concluded the “Physics of Ham Radio” PHYS 501 class (<https://mst.rice.edu/PHYS501>). This semester-long activity taught the basics of electromagnetic waves, circuits, antennas, and space weather.

Here are the participants: (bold are teachers taking for credit partially sponsored by HEAT). Note many of the auditors had passed their ham licenses but wanted to learn more about the sun, ionosphere and space weather.

Name	School	Call sign	Level Ham License
<i>For a grade:</i>			
Deborah Edwards	Cypress Lakes HS	KI5YOG	Technician (new)
Pamela Ann Jones	Paetow HS	W5PMJ	Technician (new)
Kelly Knight	Katy ISD	KN5GHT	Technician (new)
Jimmy Newland	Bellaire HS	N5JFX	Extra (upgrade from Tech)
Thomas Rutherford	Community College	KQ4EAI	Technician (new)
John Sode	Retired teacher	KF0KON	
Chloe Liebenthal	Rice U Senior	KI5YOW	Technician (new)
Keegan Pierce	Rice U Undergrad	KI5YMX	Technician (new)
<i>Auditors:</i>			
Jason Derr	Rice Space Physicist	KI5YMW	Technician (new)
Scott Mecca	Edmond Public Schools	K7TTN	Extra (existing)
Luis Medina	HISD teacher	KI5YOX	Technician (new)
Jeremy Montgomery	Ham enthusiast	KD9RUO	Extra (existing)
Luke Moore	Rice U Freshman	AA5L	Extra (existing)