

## NSSEC Rice U Status Report – November 2020

Patricia H. Reiff, Rice University

- **Communication: next iClip underway**

HMNS is creating a new planetarium show on exoplanets and the possibility for life on other planets. Interns this summer used “Open Space” to create Mars paths both for the Perseverance rover and the “Ingenuity” helicopter. These are being used in the HMNS planetarium.

- **Education: “The Sun and Space Weather” talk for KARS Nov 9**

Dr. Reiff gave a talk on “the Sun and Space Weather” to the Katy Amateur Radio Society on November 9. She highlighted what space weather is, and contrasted with the PBS miniseries “COBRA”, which had good science but “worst case” effects of a major Carrington-type storm. She then discussed the MMS mission and how we are forecasting space weather. Number online: 29 ham radio amateurs and 25 have watched the rebroadcast so far. (And yes, my seven talks this past few months have used much of the same material but customized for the audience).



Direct link to the YouTube rebroadcast: <https://youtu.be/kiccwclWjFc>

- **Education: “Is Another Carrington coming?”, Invited Talk for TAPS meeting**

Dr. Reiff gave an invited talk at the Texas division of the American Physical Society Meeting on November 13. She highlighted what space weather is, and discussed the original Carrington event and the effects a future Carrington event might have, and the solar cycle. She then discussed the MMS mission and how we study space



weather at Rice. She showed her space weather forecasting system, which is partially funded by NSSEC. Number online: 51 colleagues.

• **Education: “Virtual Planetarium Show”, November 18/19**

Dr. Carolyn Summers and Dr. Reiff jointly gave three sessions of virtual planetarium programs to teachers and students in three sessions November 18/19. We highlighted the upcoming Jupiter/Saturn conjunction.

Participants: 61 November 18, 1 pm; 58, 6 pm November 18; 43 2 pm, November 19.

