

2018 HamSCI Workshop

Welcome to NJIT!



Amateur/Ham Radio

- Hobby for Radio Enthusiasts
 - Communicators • Builders • Experimenters
- Wide-reaching Demographic, Technically Able
 - All ages & walks of life
 - Over 730,000 US hams [http://www.arrl.org/arrl-fact-sheet]
 - ~3 million World Wide



- Hobbyists routinely use HF-VHF transionospheric links.
- Often ~100 W into dipole antennas.

Frequency	Wavelength
1.8 MHz	160 m
3.5 MHz	80 m
7 MHz	40 m
10 MHz	30 m
14 MHz	20 m
18 MHz	17 m
21 MHz	15 m
24 MHz	12 m
28 MHz	10 m
50 MHz	6 m

HamSci

The Ham radio Science Citizen Investigation is:



hamsci.org/dayton2017

An organization that allows university researchers to collaborate with the amateur radio community in scientific investigations.

Objectives:

1. **Advance** scientific research and understanding through amateur radio activities.
2. **Encourage** the development of new technologies to support this research.
3. **Provide** educational opportunities for the amateur community and the general public.



Founder/Lead HamSci Organizer:
Dr. Nathaniel A. Frissell, W2NAF
NJIT Center for Solar-Terrestrial Research

HamSci
<http://hamsci.org>

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Logistics

- **Speakers...**

- Load presentations on house laptop during breaks
- **OR** be ready with your own laptop
- Wait on the side during the presentation before yours

- **Your badge is your food ticket.**

- **Need help?**

- Find someone with a red “Conference Staff” ribbon.

- **Have fun!**