

What is HamSCI???

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>

NJIT

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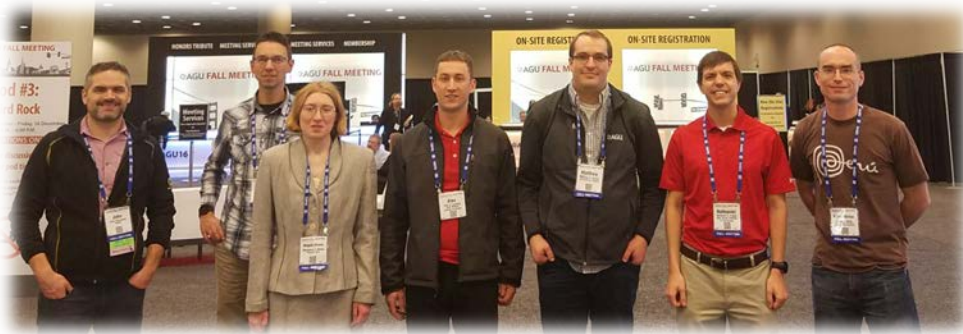
HamSCI Membership

Lead HamSCI Organizer:

Dr. Nathaniel A. Frissell, W2NAF

New Jersey Institute of Technology

Center for Solar-Terrestrial Research



HamSCI at the 2016
American Geophysical Union Meeting

Members from:

- New Jersey Institute of Technology
- Virginia Tech
- American Radio Relay League
- Afreet Software
- Bob Jones University
- Dartmouth College
- Instituto de Telecomunicações /Universidade de Aveiro
- Johns Hopkins University APL
- MIT Haystack Observatory
- Montclair State University
- Reverse Beacon Network
- The Radio Club of America
- Rice University
- Royal Military College of Canada
- SciVision, Inc.
- SRI International
- University of Alabama
- University of Calgary
- University of Michigan
- The Amateur Radio Community

HamSCI Selected Topics

Eclipse Radio Science at Marshall Space Flight Center	Ghee Fry, WL7C Jesse McTernan, KN4EZR
Wideband Recording of the Solar Eclipse: Listen Now, Analyze Later	John Ackermann, N8UR
Observing the 2017 Great American Eclipse with Simple HF Sensors	Ethan S. Miller, K8GU
WSPR Propagation During the 2017 Solar Eclipse	Jay Taft, K1EHZ
A Brief Review of Ray Tracers and Ionospheric Models	Stephen R. Kaeppler, AD0AE
Developing a Solar Eclipse Simulation for Greater Good: The Next Iteration	Joshua S. Vega, WB2JSV
Crowdsourced Lessons Learned from the 2017 Solar Eclipse LF Exercise	William Liles, NQ6Z
Solar Eclipse Effects on LF Propagation	John A. Magliacane, KD2BD
HF Band Observations and Modeling of the 2017 Eclipse	Lee Kordella, KM4MBL
NVIS Field research in Spain: Science or Adventure?	Ben A. Witvliet, PE5B/M0IJQ
Citizen radio science: An analysis of Amateur Radio transmissions with e-POP RRI	Gareth Perry
Ideas for a Personal Space Weather Station	Nathaniel A. Frissell, W2NAF
Lab Demonstration: The Hut on Phasor's Legs (Campus Center Room 235)	Kristina Collins, KD8OXT
A Low-Cost SDR Platform for Receiving AM Broadcast Stations for Ionospheric Research	David McGaw, N1HAC
Wideband Recording Tools, VHF Beacon Net, and Pitaya Frequency Stability	John Ackermann, N8UR