

# **SPACE: How we get there, What we do around the Earth, DX'ing through Satellites, How we will become an Interplanetary species**

**Midwest Speakers Exchange - Tom, N0TJD**

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**SPACE: How we get there, What we do around the Earth, DX'ing through Satellites, How we will become an Interplanetary species**

**Overview of the presentation:** The presentation begins with a discussion of our planets and our sun. Rocket launches are discussed including deployment of satellites. Detailed discussion of CubeSat around earth, our moon, and Mars. This includes how they work and how we can talk through many satellites around earth. A demonstration is then completed with use of an ARROW Antenna and HT. The use of the AMSAT.ORG website for data about satellites is shown. ISS images and discussion of ARISS student contacts. Next we move to our moon with images of the Chinese base station and rover on the far side. Discussion of the use by China of CubeSat to relay information is discussed. The moon will be our launch site to Mars. Discussion of why this will occur is complete. Next we move to Mars with discussion of the Insight Lander and the two USA CubeSat that allow the Insight to communicate and take instructions from NASA. Details of the CubeSat are part of the presentation. Finally, we look at the proposed build out to 1000 people to inhabit Mars.

- Hand outs include a NASA website that allows daily weather reports from Mars.
- Questions are then answered from the audience.
- Verbal talk presentation with pictures and/or video
- Will travel to present up to 50 miles

- Can present via: WebEx, Skype, or other Video/Voice methods that might be available to use this presentation along with my School presentation to stimulate new members.