



**2018 AMSAT-NA 36<sup>th</sup> Annual Space Symposium and General Meeting**

**November 1-4, 2018**

**U.S. Space and Rocket Center, Huntsville, Alabama**

**Thursday, November 1, 2018 – Huntsville Marriott at the Space and Rocket Center**

8 am – noon	AMSAT Board Meeting, Columbia Room
Noon – 1 pm	AMSAT Board Lunch Break, Columbia Room
1 pm – 6 pm	AMSAT Board Meeting, Columbia Room
6 pm – 7:30 pm	AMSAT Board Dinner Break, Columbia Room
7:30 pm – 10:00 pm	AMSAT Board Meeting, Columbia Room
6:00 pm – 8:00 pm	Pre-Registration Check-in, Marriott

**Friday, November 2, 2018 – U.S. Space & Rocket Center**

**Morning**

8 am – noon	AMSAT Board Meeting, Marriott Columbia Room (Closed Session)
9:00 am – 4:00 pm	Registration, Educator Training Facility (Foyer)
9:00 am – noon	Self-guided tours of Huntsville and US Space and Rocket Center on your own

**Afternoon**

1:00 pm – 1:15pm	AMSAT Symposium Kickoff, President’s Welcome, Educator Training Facility
1:15 pm – 5:00 pm	Paper Sessions, Educator Training Facility
1:15 pm	Dave Taylor, W8AAS, <i>ARISS Status Update</i>
1:40 pm	Lou McFadin W5DID, Ken Ernandes N2WWD, <i>ARISS InterOperable Radio System (IORS)</i>
2:05 pm	Bob Davis KF4KSS, <i>Multi-Voltage Power Supply Mechanical Design</i>
2:30 pm	Ed Krome K9EK, <i>ARISS Interoperable Radio System Multi-Voltage Power Supply – Thermal and Noise</i>
2:55 pm	Paul Stoetzer N8HM, <i>Digital Voice on Amateur Satellites - Experiences with LilacSat-OSCAR 90</i>
3:20pm	Jonathan Brandenburg KF5IDY, <i>A Flexible, Affordable, Powerful Digital Transceiver for the Raspberry Pi</i>
3:50 pm	Brennan Price N4QX, <i>Doppler Correction and Tracking in Commercial NGSO Networks</i>

**Friday, November 2, 2018 – U.S. Space & Rocket Center** cont'd

- 4:15 pm John Hemming GØUYT, *Experimental Satellite Antenna by GOUYT*  
4:40 pm Dan Schultz N8FGV, *DXing the Kuiper Belt - Radio Communications at the edge of the Solar System*

**Evening**

- 5:00 pm – 7:30 pm Informal Dinner on your own  
7:30 pm – 9:00 pm AMSAT Reception and Auction, Educator Training Facility  
Cash Bar Available

**Saturday November 3, 2018 – U.S. Space & Rocket Center**

**Morning**

- 8:00 am – 11:45 am Registration, Educator Training Facility (Foyer)  
8:00 am – 8:15 am AMSAT Symposium Welcome, Educator Training Facility  
8:15 am – noon Paper Sessions, Educator Training Facility:  
8:15 am Jerry Buxton NØJY, *A Look Back at the Fox-1 Program/AMSAT's GOLF Program*  
8:50 am Bob Davis KF4KSS, *GOLF-TEE Mechanical Design*  
9:15 am Zach Metzinger, *Implementation of the RT-IHU for GOLF*  
9:40 am Chris Thompson, GØKLA/AC2CZ, *Designing the Fox-1E PSK Modulator and FoxTelem Demodulator*  
10:05 am L. M. Almazan WA6LOS/DU3ZX, A.C. Salces DV1ZBJ, C. D. M. Ambatali DV1QNE, Dr. J.S. Marciano, Jr., I.Z, Bautista DV1PUI, Hanns Chua 4F1XIH, *Micro and Nano-satellites with Amateur Satellite Ground Station Development. Activities in the Republic of the Philippines*  
10:30 am Timothy A. Cunningham N8DEU, *Taking the Classroom to Space via Amateur Radio with the ARISS Program*  
10:55 am Dhruv Rebba KC9ZJX, (Working title ARISS Contact US#394  
11:20 am Alan Johnston KU2Y, Pat Kilroy, N8PK, *The AMSAT CubeSat Simulator: A New Tool for Education and Outreach*  
11:45 am Burns Fisher WB1FJ, Chris Thompson, GØKLA, *Fox-In-A-Box: An Easily Deployed Satellite Telemetry Receiver*

**Lunch**

- Noon – 1:00 pm Lunch on your own

**Afternoon**

- 1:00 pm – 3:15 pm Paper Sessions, Educator Training Facility  
Presentation Schedule TBD  
3:30 pm – 4:45 pm AMSAT Annual Meeting & Awards Ceremony, Educator Training Facility

**Evening**

- 6:00 pm – 7:00 pm Attitude Adjustment, Saturn V Hall  
6:00 pm – 10:00 pm Cash Bar, Saturn V Hall

**Saturday November 3, 2018 – U.S. Space & Rocket Center** cont'd

7:00 pm – 10:00 pm     Banquet, Saturn V Hall  
Keynote Speaker – Justin Foley, KI6EPH, System Engineer, JPL  
Prize Drawings

**Sunday November 4, 2018**

7:30 am – 9:00 am     AMSAT Ambassador Breakfast  
Huntsville Marriott at the Space and Rocket Center

10:00 am – 11:30 am     Davidson Center for Space Exploration Guided Tour  
U.S. Space and Rocket Center  
(No cost for tour, but requires general admission ticket to USS&RC)

12:30pm – 3:00 pm     Marshall Space Flight Center Bus Tour  
(Includes general admission ticket to USS&RC)