

# AMSAT 37<sup>th</sup> Space Symposium and Annual General Meeting Schedule October 16–21, 2019 Hilton Arlington Hotel, Arlington, VA

#### Wednesday October 16, 2019

08:00 - 12:00	AMSAT Board Meeting, Gallery I
12:00 - 13:00	AMSAT Board Lunch Break, Renoir Suite
13:00 - 17:00	AMSAT Board Meeting, Gallery I
16:00 - 19:00	Registration, Mezzanine

## Thursday October 17, 2019

08:00 - 12:00	AMSAT Board Meeting (Closed Session), Gallery I
12:00 - 13:00	AMSAT Board Lunch Break, Renoir Suite
13:00 - 17:00	AMSAT Board Meeting, Gallery I
08:00 - 10:00	Registration, Mezzanine
16:00 - 19:00	Registration, Mezzanine

## Friday, October 18th

08:00 - 1	6:00	Registration,	Mezzanine

08:00 – 21:00 OSCAR Park Display Area Open Gallery III

#### Presentation Schedule Galleries I & II

08:00 President's Welcome

08:10 Silent Keys

08:15 Friday Keynote
Designing the First Satellite Built in Australia

Richard Tonkin and Owen Mace

AMSAT 37th Space Symposium a	and Annual Ge	eneral Meeting So	chedule
October 16–21, 2019		_	

09:45 Deep Space Weak Signal Hardware and Software for CubeSats

Carl Brandon, N1BCD

10:30 Testing a more fade resistant BPSK demodulator for Fox Linear Transponder Spacecraft

Chris Thompson, G0KLA/AC2CZ

11:15 Three College Students' Perspectives on Ham Radio and Amateur Radio Satellites Dawson Duckworth, KC3NNB, Lauren Hurley, KD2RHC, Kaixuan Ji, AC3EN

#### 12:00 Lunch Break

On your Own

13:00 DJO and the AMSAT CubeSat Simulator Loaner Kit

Will Rimicci, Elaine Ly

13:45 A Year with the AMSAT CubeSat Simulator: 12 Months in the Classroom and Lab

Alan Johnston, KU2Y, Pat Kilroy, N8PK

14:30 Updates to the AMSAT CubeSat Simulator: Fox Emulation Mode and Raspberry Pi Ground Station

Alan Johnston, KU2Y, Pat Kilroy, N8PK

15:15 PSAT1U - A Low-Cost, Easy-Build 1U CubeSat for Hands-On Lab and Space Applications

George Downey, Bob Bruninga, WB4APR

16:00 AMSAT's 50 Year History

Dr. Tom Clark, K3IO

16:45 End of Presentations for Day One

17:00 – 19:30 Informal Dinner on your own

19:30 – 21:00 AMSAT Reception, **Mezzanine**, **Master's Ballroom**, **Gallery III**Cash Bar Available, **Mezzanine** 

#### Saturday, October 19th

08:00 - 16:00	Registration, Mezzanine
08:00 - 21:00	OSCAR Park Display Area Open Gallery III

AMSAT 37th Space Symposium and Annual	General Meeting Schedule
October 16–21. 2019	

#### Presentation Schedule Galleries I & II

08:00 President's Welcome

08:05 Saturday Keynote What We've Done!

Jan King, W3GEY

- 09:00 What's New with Amateur Radio on the International Space Station: 2019 Edition Frank H. Bauer, KA3HDO and Dave Taylor, W8AAS
- 09:45 ARISS Inter Operable Radio System: Progress Toward Flight, Frank Bauer, KA3HDO, Lou McFadin, W5DID, Kerry Banke, N6IZW Bob Bruninga, WB4APR, Bob Davis, KF4KSS, Ken Ernandes, N2WWD Ed Krome, K9EK, Kenneth Ransom, N5VHO, Gordon Scannell, KD8COJ Mark Steiner, K3MS Dave Taylor W8AAS
- 10:30 A Successful Random ARISS Contact with \$120 Station Setup Daniel Ernandes, KK4HBI
- 11:15 Comparison of Omnidirectional VHF Antenna Construction and in situ Performance for LEO Satellites Gerard Anandappa, KD9NNU, Abdus Saboor Zubair, KD9NNV, Dan White, AD0CQ

#### 12:00 Lunch Break

On your Own

- 13:00 CatSat: Pathfinder for New Ham Satellite Opportunities Michael Parker, KT7D, Christopher Walker, K7CKW, Douglas Stetson
- 13:45 AMSAT Engineering Update

**AMSAT Engineering** 

15:00 AMSAT Annual General Meeting & Awards Ceremony (LiveStream) Joe Spier, K6WAO

16:00 Adjourn Presentations and AGM

18:00 – 19:00	Attitude Adjustment	Mezzanine & Gallery III
18:00 – 22:00	Cash Bar	Mezzanine
19:00 – 22:00	Banquet	Gallery I & II

# AMSAT 37th Space Symposium and Annual General Meeting Schedule October 16–21, 2019

20:00 – 22:00 Banquet Speakers – 50 Years of Amateur Radio in Space

Lance Ginner, K6GSJ (Project OSCAR)

George Jacobs, W3ASK (Author, Diplomat)

Dr. Perry Klein, W3PK (Founding President of AMSAT)

Dr. Owen Mace (Australis-OSCAR 5 Builder, University of Melbourne)

Richard Tonkin (Australis-OSCAR 5 Builder, University of Melbourne)

Jan King, W3GEY (Founding member of AMSAT & Australis-OSCAR 5 Project

Manager)

Door Prize Drawings

#### Sunday October 20, 2019

07:00 - 09:00	AMSAT Ambassador's Breakfast, Gallery I
09:00 – 16:00	Udvar-Hazy Center, Smithsonian Air and Space Museum Tour, <b>Chantilly, VA</b> Meet at Shuttle Pickup, Outside Hotel Lobby

#### Monday October 21, 2019

08:00 – 17:00 Walking Tour of the Washington, DC National Mall with visit to Smithsonian Air and Space Museum, Downtown, with Joe Spier, K6WAO

**Meet at Ballston Metro Station**, basement of Hilton Arlington Please contact Joe at the Symposium to sign up

