

# Digital Communications Conference

September 14-16, 2018 • Albuquerque, NM

Last Revision: September 10, 2018



<http://www.tapr.org/dcc>

## Schedule at a Glance

### Thursday, 13 Sep

9:00 AM TAPR Board Meeting  
5:00 PM (everyone is welcome to attend)

### Friday, 14 Sep

8:00 AM Conference Registration and  
Demonstration Room Open  
8:45 AM Welcome  
9:00 AM Technical Presentations  
Noon Lunch  
1:00 PM Technical Presentations  
5:30 PM Friday Night Social  
10:00 PM Demonstration Room Closed

### Saturday, 15 Sep

8:00 AM Conference Registration and  
Demonstration Room Open  
8:45 AM Welcome  
9:00 AM Technical Presentations  
Noon Lunch  
1:00 PM Technical Presentations  
4:00 PM TAPR Membership Meeting  
6:00 PM No Host Cash Bar  
7:00 PM Dinner Banquet  
10:00 PM Demonstration Room Closed

### Sunday, 16 Sep

8:00 AM Sunday Seminar  
Noon

## Rooms at a Glance

Registration – Precon Hallway  
Demonstration Room – Tijeras

### Thursday

TAPR Board Meeting – Vista Norte

### Friday

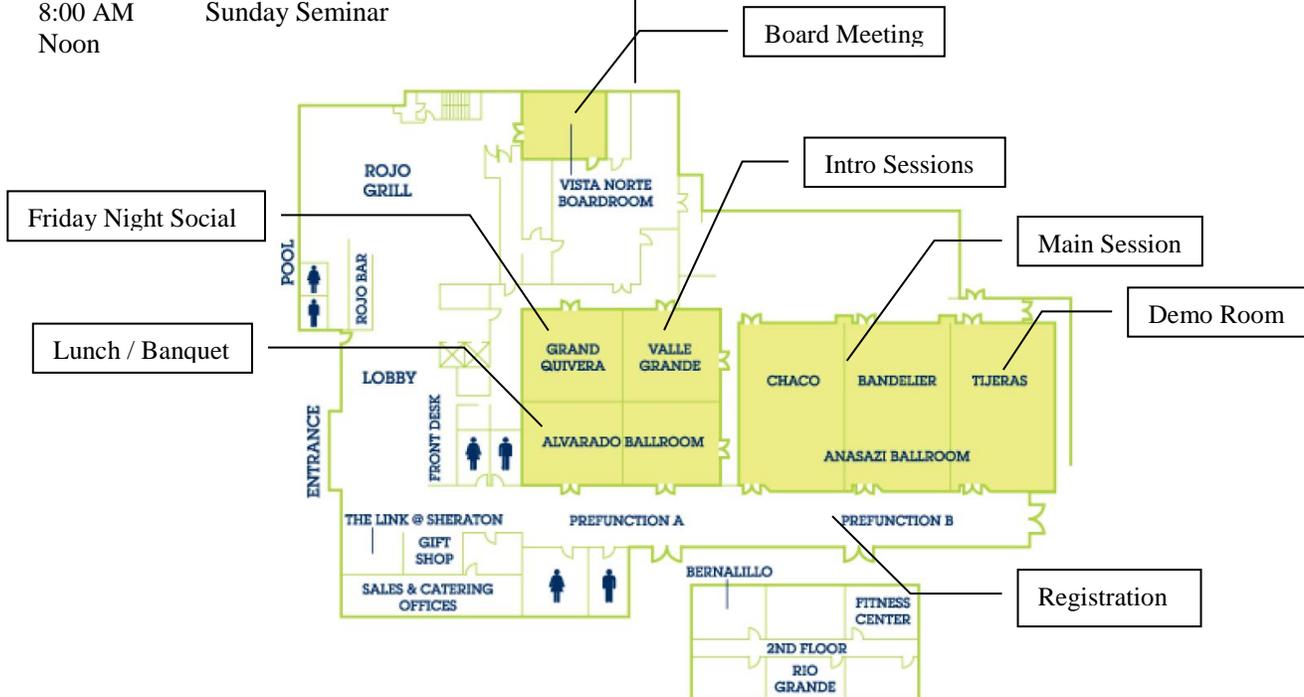
Main Session Technical Presentations – Chaco/Bandelier  
Lunch – Alvarado Ballroom  
DCC Social – Grand Quivera

### Saturday

Main Session Technical Presentations – Chaco/Bandelier  
Introductory Sessions Presentations – Valle Grande  
Lunch – Grand Quivera  
Dinner Banquet – Alvarado Ballroom

### Sunday

Sunday Seminar – Chaco/Bandelier



# 2018 DCC Conference Schedule

	<b>Friday</b>	<b>Saturday</b>	<b>Sunday</b>	
8:00 AM	Conference Registration Demonstration Room Open	Conference Registration Demonstration Room Open	<b>Sunday Seminar</b> 8:00 AM – 12:00 AM  HamSCI Personal Space Weather Station Nathaniel Frissell, W2NAF	
8:45 AM	<b>Main Session</b> Welcome and Introductions	<b>Main Session</b> Welcome and Introductions		<b>Introductory Session</b>
9:00 AM	<b>How Do I Choose? Evaluating 9 of the Best Single Board Computers for Modern SDR Systems</b> Scotty Cowling, WA2DFI	<b>New Mexico Institute of Mining and Technology: Maintaining student interest through modern amateur radio projects</b> Skyler Fennell, KDØWHB		
9:45 AM	<b>The Real FT8, JT65, and JT9 Signal-to-Noise Ratio Revealed</b> Jim Frazier, KC5RUO	<b>Bringing Net-44 and IPv6 to your Station via VPN</b> John Hays, K7VE		
10:30 AM	<b>Understanding DMR Networks</b> Jason Johnson, KC5HWB	<b>DRAWS; Digital Radio Amateur Workstation</b> Bryan Hoyer, K7UDR		<b>Hi-Def Digital Television for ham stations and repeaters</b> Mel Whitten, KØPFX
11:15 AM	<b>Deploying a multi-site DMR system for the Total Eclipse of the Sun</b> Mike Pappas, W9CN, and John Spainhower, NØJPS	<b>The Very Large Array and RFI Mitigation</b> Adam Kimbrough, N4ADK		
Noon	<b>Lunch</b>	<b>Lunch</b>		
1:00 PM	<b>Lightning Talks</b> (Impromptu 5-minute talks)	<b>Lightning Talks</b> (Impromptu 5-minute talks)	<b>System Fusion Overview</b> Chris Petersen, K9EQ	
1:45 PM	<b>A Flexible, Affordable, Powerful Digital Transceiver for the Raspberry Pi</b> Jonathan Brandenburg, KF5IDY	<b>Study on Actual Usage of FT8 in the US and Japan</b> Masaaki Maeda, W2/JR1AQN		
2:30 PM	<b>LDPC (Low Density Parity Codes) for Normal People</b> Michelle Thompson, W5NYV	<b>Beyond Line-of-Sight Digital Communications with the LoRa Spread-Spectrum Waveform</b> Dan Fay, KG5VBY		
3:15 PM	<b>Ionospheric Measurements of the 2017 Great American Eclipse</b> Nathaniel Frissell, W2NAF Phil Erickson, W1PJE	<b>Implementing MACA and Other Useful Improvements to Amateur Packet Radio for Throughput and Capacity</b> Steven Gunderson, and John Bonnett, KK6JRA		
4:00 PM	<b>Modern DSP Tools for Amateur Operations</b> Rick Naething AE5JI	<b>Realtime Multicast for SDR Module Interconnection</b> Phil Karn, KA9Q		
4:45 PM	<b>Play Time</b> in the Demonstration Room	<b>TAPR Annual Meeting</b>		
5:30 PM	<b>Friday Night Social</b> No-Host Cash Bar	<b>Play Time</b> in the Demonstration Room		
6:00 PM		<b>Dinner</b> No-Host Cash Bar (6:00 PM) Dinner (7:00 PM) <b>Towards A 21st Century Understanding of Earth's Upper Atmosphere: The Value of Radio Based Amateur-Scientist Partnerships</b> by Dr. Philip J. Erickson, W1PJE Awards Presentation Prize Drawings		
10:00 PM	<b>Demonstration Room Closed</b>			