

# Digital Communications Conference

September 20-22, 2019 • Detroit, MI

Last Revision: September 5, 2019



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

## Schedule at a Glance

### Thursday, 19 Sep

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

### Friday, 20 Sep

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

### Saturday, 21 Sep

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

### Sunday, 22 Sep

8:00 AM Sunday Seminar  
Noon

## Rooms at a Glance

Registration – Foyer  
Demonstration Room – Dearborn

### Thursday

TAPR Board Meeting – Romulus (2<sup>nd</sup> Floor)

### Friday

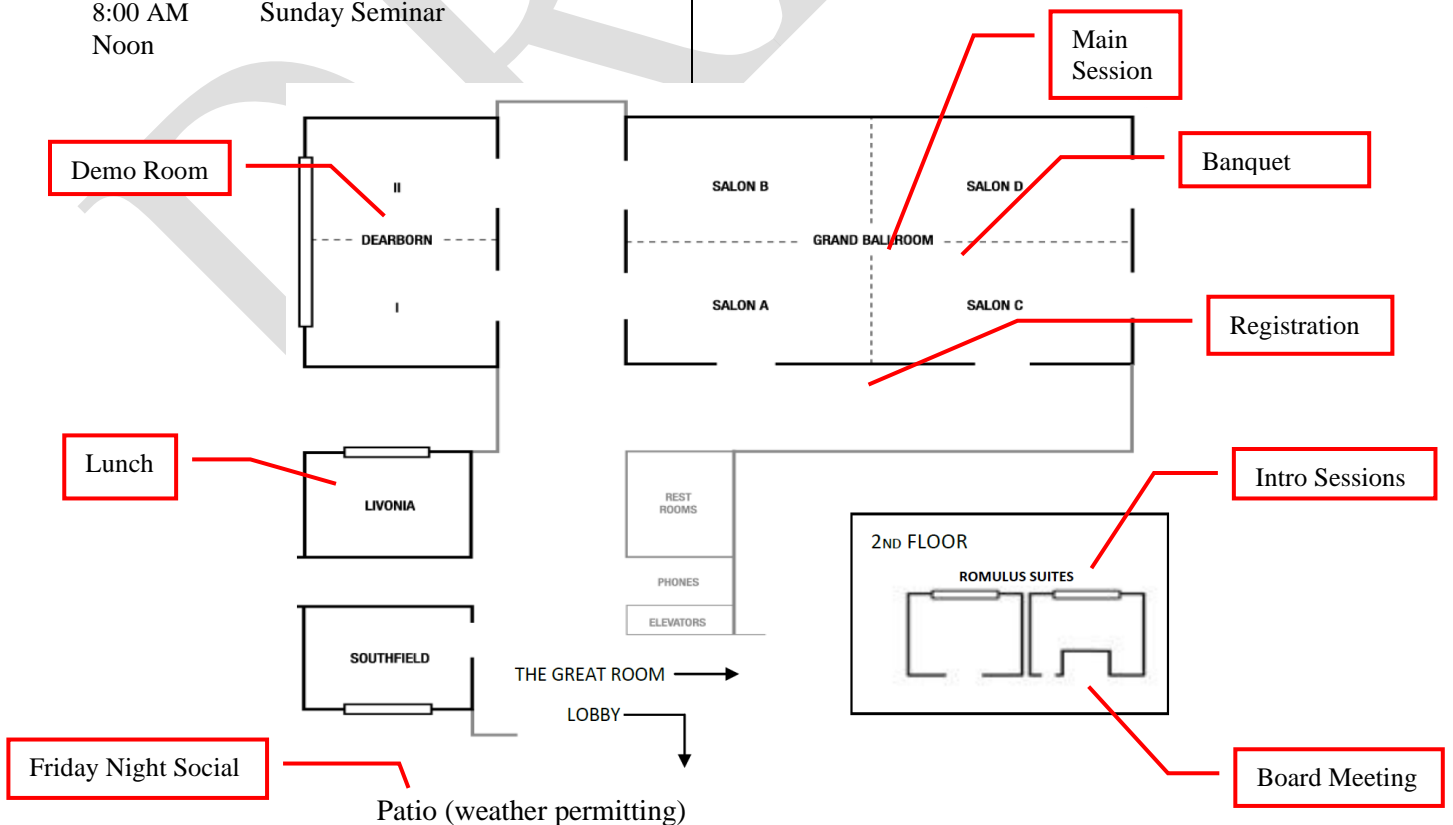
Main Session Technical Presentations – Grand Ballroom  
Lunch – Livonia and Southfield  
DCC Social – Patio (weather permitting)

### Saturday

Main Session Technical Presentations – Ballroom  
Introductory Sessions Presentations – Romulus (2<sup>nd</sup> Floor)  
Lunch – Livonia and Southfield  
Dinner Banquet – Grand Ballroom

### Sunday

Sunday Seminar – Grand Ballroom



# Preliminary 2019 DCC Conference Schedule

	<b>Friday – Main Session</b>	<b>Saturday – Main Session</b>	<b>Sunday</b>		
8:00 AM		Conference Registration Demonstration Room Open	<b>Sunday Seminar</b> <b>8:00 AM – 12:00 AM</b>  <b>Learn to build and operate your own SatNOGS ground station</b> Dan White, ADØCQ Corey Shields, KB9JHU		
8:45 AM	Conference Registration Demonstration Room Open	<b>Personal Space Weather Station Update</b> Nathaniel Frissell, W2NAF		<b>Introductory Session</b>	
9:00 AM		<b>TangerineSDR -- A Modular SDR for HamSCI, Satellite, Experimenters and Academics</b> Scotty Cowling, WA2DFI			
9:30 AM	Welcome and Introductions				
9:45 AM	<b>GPS -- Beyond the Basics</b> John Ackermann, N8UR	<b>Using TangerineSDR to Build a Personal Space Weather Station</b> Tom McDermott, N5EG			
10:30 AM	<b>The Threat of High Voltage Switching, Solar and EV's to Amateur Communications</b> Bob Bruninga, WB4APR	<b>Large Scale Traveling Ionospheric Disturbances as Observed by RBN and WSPRNet</b> Nathaniel Frissell, W2NAF <b>Challenges in WWV Doppler Measurements</b> Phil Erickson, W1PJE			<b>Introduction to Hi-Def Digital Amateur Television</b> Mel Whitten, KØPFX
11:15 AM	<b>2-meter and 70-centimeter digital radio modulation basics</b> Mark Miller, N5RFX	<b>Estimating LF–HF Band Noise while Acquiring WSPR Spots</b> Gwyn Griffiths G3ZIL, Rob Robinnett AI6VN, and Glenn Elmore N6GN <b>Field Day 2019 Observations from the Swarm-E Spacecraft</b> Gareth Perry, KD2SAK			
Noon	Lunch	Lunch			
1:00 PM	<b>Lightning Talks</b> (Impromptu 5-minute talks)	<b>Lightning Talks</b> (Impromptu 5-minute talks)			
1:45 PM	<b>The Homogeneous AMPRnet Data Network</b> Jay Nugent, WB8TKL	<b>Ground-Based VLF Observations of Whistler Waves</b> Jonathan Rizzo, KC3EEY	<b>System Fusion Overview</b> Mark Thompson, WB9QZB		
2:30 PM	<b>From ad hoc to automated data collection in Linux</b> Dan White, ADØCQ	<b>An FPGA Learning Experience: SPI Interface to Max10 FPGA</b> Gregory Raven, KF5N;			
3:15 PM	<b>Portable Audio Frequency-Shift Keying Sensors using a Hamshield mini</b> Nolan Pearce, KE8JCT	<b>PSAT2 DTMF Experiment APRStt – Touchtone® Digital Communications: Using any Radio for Data Exchange</b> Bob Bruninga, WB4APR			
4:00 PM	<b>The Lion in the Path</b> Kristina Collins, KD8OXT	<b>Synchronization in FT8</b> Mike Hasselbeck, WB2FKO			
4:45 PM	<b>Play Time</b> in the Demonstration Room	<b>TAPR Annual Meeting</b>			
5:30 PM	<b>Friday Night Social</b> <b>No-Host Cash Bar</b>	<b>Play Time</b> in the Demonstration Room			
6:00 PM		<b>Dinner</b> <b>No-Host Cash Bar (6:00 PM)</b> <b>Dinner (7:00 PM)</b> Bill Brown, WB8ELK Digital Modes on Amateur Radio High Altitude Balloons <b>Awards Presentation</b> <b>Prize Drawings</b>			
10:00 PM	<b>Demonstration Room Closed</b>				