

Digital Communications Conference

September 20-22, 2019 • Detroit, MI

Last Revision: August 29, 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

8:00 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, 21 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
4:45 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

Friday

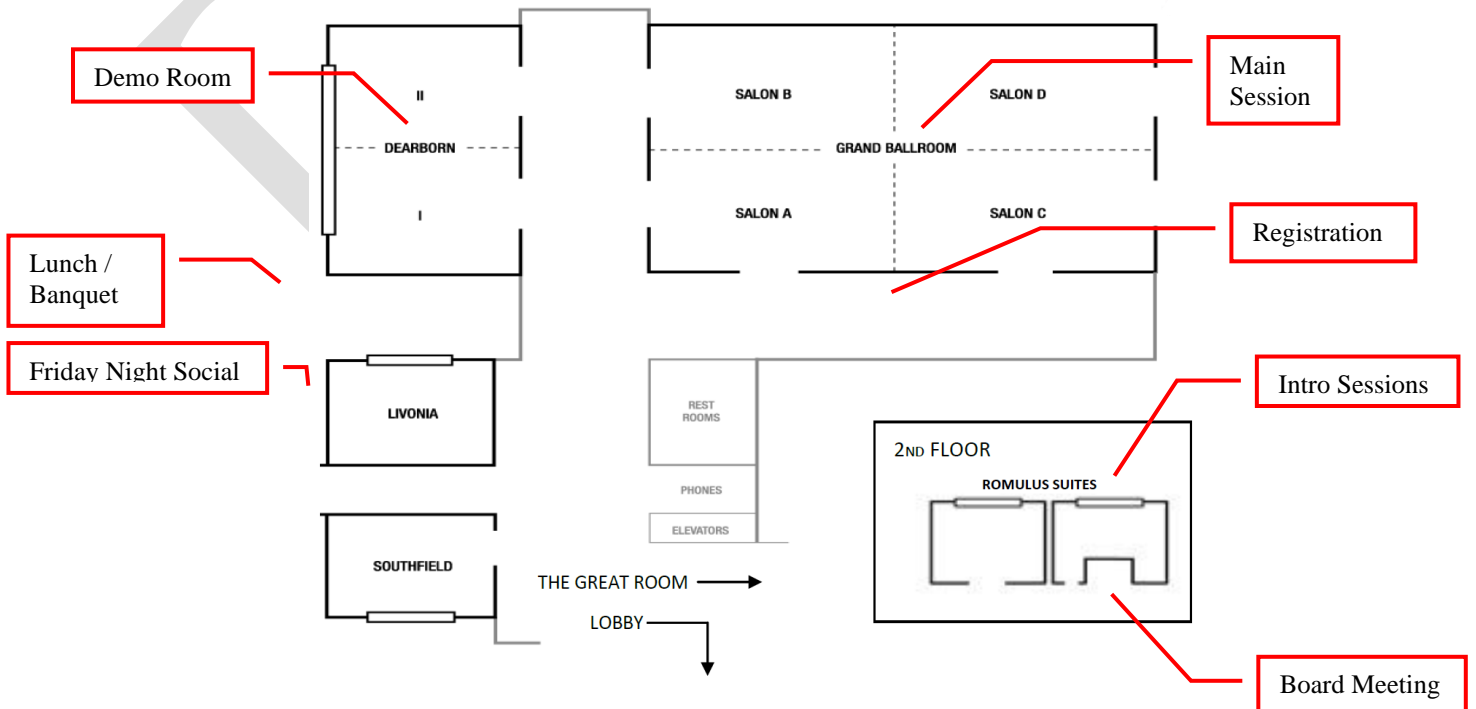
Main Session Technical Presentations – Ballroom
Lunch – North Private
DCC Social – North Private

Saturday

Main Session Technical Presentations – Ballroom
Introductory Sessions Presentations – Romulus (2nd Floor)
Lunch – North Private
Dinner Banquet – North Private

Sunday

Sunday Seminar – Ballroom



Preliminary 2019 DCC Conference Schedule

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