

ARRL and TAPR 40th Annual
Digital Communications Conference
September 17-18, 2021 – Virtual Online

Preliminary Schedule 2021-09-16

FINAL

Friday, September 17, 2021

EDT (UTC - 4)	PDT (UTC - 7)	UTC	Presentation		Time	Moderator
10:00 am	7:00 am	14:00	Opening Remarks Steve Bible, N7HPR (President TAPR)		15 min	Moderator_1
10:15	7:15	14:15	PSWS Overview Nathaniel Frissell, W2NAF (University of Scranton)		15 min	
10:30	7:30	14:30	TangerineSDR Hardware System Update: Data Engine, RF Module, Clock Module Scotty Cowling, WA2DFI (TAPR)		30 min	
11:00	8:00	15:00	Magnetometer Science Update Hyomin Kim, KD2MCR (New Jersey Institute of Technology)		15 min	
11:15	8:15	15:15	An Easily Constructed High Resolution 3 Axis Magnetometer for Backyard Citizen Science Jules Madey, K2KGJ		15 min	
11:30	8:30	15:30	Break Time (30 minutes)			
12:00 noon	9:00	16:00	Magnetometer Alignment Techniques Using LocalHost Bill Engelke, AB4EJ (University of Alabama)		15 Min	Moderator_2
12:15	9:15	16:15	Magnetometer Board RFI Testing (Proceedings) Bill Engelke, AB4EJ (University of Alabama)		15 min	
12:30	9:30	16:30	Magnetometer Software Dave Witten, KD0EAG		15 min	
12:45	9:45	16:45	VLF LEAF Module for the Tangerine SDR DCC 2021 Update Jonathan Rizzo, KC3EEY		30 min	
13:15	10:15	17:15	Construction and Operation of a HamSCI Grape Version 1 Personal Space Weather Station: A Citizen Scientist's Perspective Bob Benedict, KD8CGH, David Waugh, KE8QEP		15 min	
13:30	10:30	17:30	Break Time (30 Minutes)			
14:00	11:00	18:00	WWV/H Scientific Modulation Working Group Kristina Collins, KD8OXT (Case Western Reserve University)		15 min	Moderator_3
14:15	11:15	18:15	Grape Version II Update John Gibbons, N8OBJ (Case Western Reserve University)		30 min	
14:45	11:45	18:45	Experimental and Computational Methods to Analyze Complex Doppler Behavior of Ionospherically Induced Doppler Shifts on HF Signals (Proceedings) Steve Cerwin WA5FRF		30 min	
15:15	12:15	19:15	Ionospheric Science Motivations and Selected Analysis Techniques for PSWS Grape and Related Data Sets Phil Erickson, W1PJE (MIT Haystack)		15 min	
15:30	12:30	19:30	Break Time (30 Minutes)			
16:00	13:00	20:00	Sources of Large Scale Traveling Ionospheric Disturbances Observed using HamSCI Amateur Radio, SuperDARN, and GNSS TEC Nathaniel Frissell, W2NAF (University of Scranton)		15 min	
16:15	13:15	20:15	Climatology of Traveling Ionospheric Disturbances Observed by HamSCI Amateur Radio with Connections to Geospace and Neutral Atmospheric Sources Diego Sanchez, KD2RLM (New Jersey Institute of Technology)		15 min	
16:30	13:30	20:30	Conclusion Steve Bible, N7HPR (President TAPR)			

Saturday, September 18, 2021

EDT (UTC - 4)	PDT (UTC - 7)	UTC	Presentation		Time	Moderator
10:00 am	7:00 am	14:00	Opening Remarks Steve Bible, N7HPR (President TAPR)		15 min	Moderator_1
10:15	7:15	14:15	HamSCI: Today's Community and Future Directions Nathaniel Frissell, W2NAF (University of Scranton)		15 min	
10:30	7:30	14:30	Observations of Mid-latitude Irregularities Using the Oblique Ionosonde Sounding Mode for the HamSCI Personal Space Weather Station (Proceedings) Dev Joshi, KC3PVE (University of Scranton)		15 min	
10:45	7:45	14:45	HF Doppler Observations of Traveling Ionospheric Disturbances in the WWV Signal Received with a Network of Low-Cost HamSCI Personal Space Weather Stations Veronica Romanek, KD2UHN (University of Scranton)		30 min	
11:15	8:15	15:15	Coherent CW: A Technician's HF Digital Mode David Kazdan, AD8Y, Aidan Montare KB3UMD (Case Western Reserve University)		15 min	
11:30	8:30	15:30	Break Time (30 minutes)			
12:00 noon	9:00	16:00	Propagation by Plate Tectonics and the Moon (Proceedings) Alex Schwarz, VE7DXW		30 min	Moderator_2
12:30	9:30	16:30	A Tale of Two Meshes (Proceedings) Erik Westgard, NY9D		30 min	
13:00	10:00	17:00	ARDC - Grants and the Amateur Radio Internet John Hays, K7VE (ARDC)		30 min	
13:30	10:30	17:30	Break Time (30 Minutes)			
14:00	11:00	18:00	The KA9Q-Radio Package (Proceedings) Phil Karn, KA9Q		30 min	Moderator_3
14:30	11:30	18:30	Multipurpose Remote Nodes (Proceedings) Steve Stroh, N8GNJ, Andy Saylor, KF7VOL		30 min	
15:00	12:00	19:00	Detecting Putative Sporadic E Propagation in WSPRNet Spot Records (Proceedings) Jeanette Zhou, KN6DAD		15 min	
15:15	12:15	19:15	Break Time (30 Minutes)			
15:45	12:45	19:45	TAPR Annual Meeting TAPR Officers and Board Members		1 hour	
17:00	14:00	21:00	Conclusion Steve Bible, N7HPR (President TAPR)			