

NRDZCOM5

Date: December 10-11, 2024

Zoom: <https://nsf.zoomgov.com/meeting/register/vJltcu6gpzMvGbgD6x3P0rZqoZVXKFR2bJs>

Hosts: John Chapin, NSF
Chris Anderson, NTIA/ITS
Joel Dumke, NTIA/ITS



Dec. 10 (All Times Eastern)

9:30 – 10:00am	Optional Introduction to NRDZ Program for Newcomers	John Chapin, NSF
10:00 – 10:05am	Greetings and Welcome	Joel Dumke, NTIA/ITS
10:05 – 10:15am	SII-NRDZ Program Update	John Chapin, NSF
10:15 – 10:35am	Report from the Green Bank Workshop	Mariya Zheleva, U. Albany
10:35 – 11:20am	Community Updates: ZMS	
	10:35-10:50 POWDER	David Johnson, U. Utah
	10:50-11:05 COSMOS	Gil Zussman, Columbia University
	11:05-11:20 NRAO Operational Data Sharing	Bang Nhan, NRAO
11:20 – 12:16pm	Community Updates: Projects	
	11:20-11:27 Sweepstakes	Dinesh Bharadia, University of California San Diego
	11:27-11:34 SWIFT-SAT	Josep Miquel Jornet, Northeastern University
	11:34-11:41 NRAO ASM-2	Chris DePree, NRAO
	11:41-11:48 The STRATA Report, Creating the NEFSI	Erik Kline, USC/ISI
	11:48-11:55 ARA	Hongwei Zhang, ISU

	11:55-12:02 AERPAW	Ismail Guvenc, NC State
	12-02:12:09 NSF RADYSSIS Project Update	Kevin Gifford, CU Boulder
	12:09-12:16 Spectrum Coexistence: Progress and Challenges with the DSA-2000	Greg Hellbourg, Caltech
12:16 – 12:36pm	Break	
12:36 – 12:40pm	Afternoon Session Opening Remarks	Joel Dumke, NTIA/ITS
12:40 – 1:40pm	Community Updates: SII-NRDZ-SBE Projects	
	12:40-12:50 Enabling Fairness-Aware and Privacy-Preserving Spatial Spectrum Sharing	Xiangwei Zhou, Louisiana State University
	12:50-1:00 Facilitating Collaboration with Native Nations	Darrah Blackwater, Blackwater Consulting
	1:00-1:10 Bridging the techno-economic gap for the design of spectrum Zone Management Systems	Igor Kadota, Northwestern University
	1:10-1:20 NextG Spectrum Sharing for O-RAN-based Emergency Networking via Deep Multi-Agent Reinforcement Learning	Dario Pompili, Rutgers University
	1:20-1:30 Mechanisms for Spectrum Sharing with a Scientific User: Interference Measurements with Costly Verification	Federico Bobbio, Northwestern University
	1:30-1:40 CBRS Incentive Mechanism Design Framework and its Socioeconomic Impacts	Dinesh Bharadia, University of California San Diego
1:40 – 3:00pm	SPARKIE EEL Overview • Organization • Goals and Outcomes • NRDZ-as-a-Service • Phase 2 Project Timeline • First Experiment Concept	Curtis Watson, MITRE
3:00– 3:20pm	Break	

3:20 – 4:30pm	First Experiment Details • Hat Creek Radio Observatory (HCRO) Location for First Experiment • OpenZMS at HCRO • First Experiment Definition Thoughts • Sensors and Algorithms • Digital Twin Discussion	Curtis Watson, MITRE → David DeBoer, UC Berkeley → David Johnson, U. Utah → Kevin Gifford, CU Boulder → Kaushik Chowdhury, UT → Michele Polese, Northeastern U.
4:30 – 4:50pm	Phase 2 Project Discussion • Pre-Experiment Investigation • Capstones and Deliverables • Collaboration and Outreach	Curtis Watson, MITRE
4:50 – 5:00pm	Closing Remarks	

Dec. 11

(All Times Eastern)

10:00 – 10:10am	Opening Remarks	Chris Anderson, NTIA/ITS
10:10 – 10:25am	NewSpectrum Update	John Chapin, NSF
10:25 – 10:55am	DSS Testbed Update	Charles Dietlein, NTIA/ITS Jeremy Glenn, NTIA/ITS Pouyan Amirshahi, NTIA/OSM
10:55 – 11:25am	WinnForum Briefing	Amit Mukhopadhyay, Nokia Andrew Clegg, Google
11:25 – 11:55am	NSS Band Studies: 7-8.4 GHz Briefing	Nick LaSorte, NTIA/OSM
11:55 – 12:15pm	Break	
12:15 – 12:45pm	National Spectrum R&D Plan	Mike DiFrancisco, NTIA/OSM
12:45 – 2:15pm	Interactive / Lean Coffee Session	Mariya Zheleva, U. Albany
	Wake up and smell the spectrum!	
	- What can 7-8GHz teach us about spectrum sharing in NRDZ and beyond?	
2:15 – 2:35pm	Lean Coffee Outbrief	
2:35 – 2:45pm	Day 2 and NRDZCOM5 Conclusion	Joel Dumke, NTIA/ITS John Chapin, NSF