

# RHET 2021 Meeting Agenda (Salt Lake City Marriott University Park)

Hosted by: Silicon Technologies Inc.

Time	Monday, November 01, 2021	
5:00 PM	Registration/Badge Pickup (Ends at 8:00)	
6:00 PM	Registration/Badge Pickup Continues	Welcome Reception
8:00 PM	End of Reception	

Time	Tuesday, November 02, 2021	
7:00 AM	Registration & Breakfast	
8:00 AM	"Day 1 Welcoming Remarks" Jesse Mee (Air Force Research Laboratory)	
8:05 AM	"Intro to Silicon Technologies, Inc." Tom Wolf (Silicon Technologies Inc)	
	Gov Programs Update I Chair: Jesse Mee (Air Force Research Laboratory)	
8:35 AM	"NSWC CRANE Plans and Programs " Matthew Gadlage (NSWC CRANE)	
8:50 AM	"Advanced Systems & Technology Enterprise and Foundational Technologies Division Overview" Lew Cohn (National Reconnaissance Office )	
9:05 AM	"Application of MOSA to Spaceforce Architecture" Dan Romm, Brad Reed (SMC/ZA)	
9:20 AM	"MDA Radiation Technology and Testing Overview" Jon Ahlbin (Missile Defense Agency)	
9:35 AM	"NASA Avionics Technology Needs" Wesley Powell (NASA Goddard Space Flight Center)	
9:50 AM	AM BREAK	
10:20 AM	RH Processor & Memory Technologies Chair: Tyler Lovelly (Air Force Research Laboratory)	
10:20 AM	"HOPE program Update" David Ellis (Ball Aerospace)	
10:35 AM	"SONOS Based In-Compute Memory for Space Applications" Helmut Puchner (Infineon Memory Solutions)	
10:50 AM	"Advanced MRAM for Space" Paul Chopelas / Paul Armijo (Avalanche Technology )	
11:05 AM	"RH Memory Status and Product Plans" Jim Hobbs (Honeywell)	
11:20 AM	"3D PLUS Solutions for High End and High Speed FPGA Based Processing Boards" Timothee Dargnies (3D Plus USA)	
11:35 AM	"Moog BRE440A development and design " John Schaf (Moog)	
11:50 AM	Lunch (provided)	
	RH Electronics Parts and Products Chair: Ethan Johnson (Air Force Research Laboratory)	
1:05 PM	"ADONIS, the Radiation Tests, and How ADONIS Has Been Productized" Tom Wolf (Silicon Technologies, Inc.)	
1:20 PM	"Latchup Hardened Bulk Silicon for High Temperature, High Reliability Applications" Wes Morris (Silicon X)	
1:35 PM	"Developing a GaN enabled PWM using a Rad-Hard process in a Trusted Foundry" Anton Quiroz (Apogee Semiconductor)	
1:50 PM	"Improve SWaP on Space Power Systems with Next-gen Rad Hard Switches" Oscar Mansilla (IR HiRel, an Infineon Technologies company)	
2:05 PM	"Radiation Hardened Technology and Product Update" Tony Jordan (CAES)	
2:20 PM	"University of Utah Nuclear Engineering Program Overview" Glenn Eric Sjoden (University of Utah )	
2:35 PM	PM BREAK	
	RH Electronics Parts and Products - continued Chair: John Dickinson (Sandia National Laboratories)	
3:05 PM	"Renesas Product Update" Joshua Broline (Renesas)	
3:20 PM	"Overview of Scientific's Capabilities and Services" Bryan Hughes (Scientific)	
3:35 PM	"High-Speed Fiber Optic Components for Space Applications" Charlie Kuznia (Ultra Communications)	
3:50 PM	"DDR4: Test and Evaluation for Space" Marti McCurdy (Spirit Electronics)	
4:05 PM	"Radiation Test Solutions Overview: Testing, Design and Analysis Services. " Mike Tostanoski (Radiation Test Solutions, Inc.)	
4:20 PM	"Post Quantum Cryptography Approach for Defense and Space" David Cruzado (Honeywell)	
4:35 PM	"Alphacore's RH Characterization and High-Speed/Low Power/RH IP for 22nm FDSOI" Marek Turowski and Ken Potts (Alphacore)	
4:50 PM	End of session	
6:00 PM	Silicon Technologies Reception	
8:00 PM	End Day 1	

Time	Wednesday, November 03, 2021	
7:00 AM	Registration & Breakfast	
8:00 AM	"Day 2 Welcoming Remarks" Jesse Mee (Air Force Research Laboratory)	
	Radiation Testing of Advanced Electronics Chair: Windy Slater (Air Force Research Laboratory)	
8:05 AM	"NEPP's Recent Accomplishments and Plans for 2022" Peter Majewicz (NASA Goddard Space Flight Center)	
8:20 AM	"Lessons Learned from Laser System Setup and Testing" Isaak Samsel / Keri Kuhn (SEAKR)	
8:35 AM	"Single-Event Radiation Test Approaches for Complex Heterogeneous COTs Devices" Mike Wirthlin (BYU)	
8:50 AM	"Edge Processing at Sandia National Laboratory" John Dickinson (Sandia National Labs)	
9:05 AM	"Research in Advanced Technologies Radiation Effects at Sandia National Laboratories" Nathan Nowlin (Sandia National Labs)	
9:20 AM	"Radiation Test Results and Mitigation Techniques for COTS GPUs" Ian Troxel (Troxel Aerospace )	
9:35 AM	"LMTF Test Capabilities" Gregory J. Bell (Boeing)	
9:50 AM	AM BREAK	
	RH Semiconductor Manufacturing and packaging Chair: Tom Wolf (Silicon Technologies Inc)	
10:20 AM	"NASA Avionics Radiation Hardness Assurance Guidelines" Jonathan Pellish (NASA Goddard Space Flight Center)	
10:35 AM	"Rad Hard by Process Fully Depleted SOI CMOS for Strategic Radiation Hard Applications" Pascale Gouker (MIT LL)	
10:50 AM	"Tower Semiconductor – 2021 and beyond" Michael Scott (Tower Semiconductor)	
11:05 AM	"Expanding Technology Capabilities for Domestic Microelectronic Solutions " Gregg Panning (SkyWater)	
11:20 AM	"Trusted Traceability for Rad-Hard Supply Chains" Brett Attaway (Mentor via Siemens Government Technologies)	
11:35 AM	"Radiation Hardening Commercial Products Without Need of Radiation Hardened Cell Libraries or Costly Re-design" Patrice Parris (VORAGO Technologies)	
11:50 AM	Lunch (provided)	
1:05 PM	"Impact of SRHEC on OSD" Rich Ryan, OUSD(A&S/NCB/NM)	
1:20 PM	"SRHEC Inputs to T&AM Rad Hard Efforts" Matthew Gadlage (NSWC Crane)	
1:35 PM	"SRHEC Process" Jeffrey Johann (NSWC Crane)	
1:50 PM	"Program Needs Working Group (WG)" Richard Yaw (MDA), Mark Johnson (Aerospace)	
2:10 PM	"Science & Technology Needs WG" Kenneth Bole (AFRL), Joshua Gray (SSP)	
2:30 PM	"Technology & Development WG/SOTA IC & Memory Sub-WG" Andrew Howard (NSWC CRANE), Ryan Schow (AFNWC), Jesse Mee (AFRL)	
2:55 PM	"Industrial Base Assessments (IBAs): ICs, Passives, Other Electronics" Andrew Howard (NSWC Crane)	
3:10 PM	PM BREAK	
3:30 PM	"Test & Evaluation WG/nSEE Sub-WG" John Franco (DTRA), Jim Ross (NSWC Crane)	
3:55 PM	"Policy WG" Penny Johnson (AFNWC), Joshua Mischler (SSP)	
4:10 PM	"Export Control Efforts" Christine Rink (Aerospace)	
4:25 PM	"Trust, Assurance, & Nuclear Surety WG" Matthew Sale (AFRL), Vaughn Standley (NNSA)	
4:40 PM	"Workforce Development WG" Jonathan Pellish (NASA), Kara Perry (NSWC Crane)	
5:00 PM	Meeting Wrap-up	
6:00 PM	Tour of TRIGA and USTAR Fab University of Utah	

Time	Thursday, November 04, 2021	
7:30 AM	Tour of Little Mountain Test Facility - Ogden UT (7:30 AM to 11:30 AM)	SRHEC Export Control Workshop - Marriott (8:30 AM to 12:00 PM)
8:30 AM		
11:00 AM		
11:30 AM	END TOUR	
12:00 PM	END EXPORT CONTROL WORKSHOP	

Strategic Radiation Hardened Electronics Council  
Workshop