

NSREC VIRTUAL SCHEDULE

Sunday, November 29 - Tuesday, December 8, 2020

(Times listed as EST)

On-Demand Recordings and Exhibit Hall Also Open December 5-30, 2020

Sunday, Nov. 29 AND Monday, Nov. 30

15 Minutes	Introduction: Short Course , Dr. Ken Galloway, Chair	Pre-recorded & ON DEMAND for 48 hours, starting at 00:01 Sunday and ending at 24:00 EST Monday
75 Minutes	Part 1: RADIATION EFFECTS IN A POST-MOORE WORLD , Dr. Dan Fleetwood	
75 Minutes	Part 2: RADIATION EFFECTS IN EMERGING MEMORIES , Dr. Matthew Marinella	
75 Minutes	Part 3: WIDE-BANDGAP POWER - SiC and GaN – RADIATION RELIABILITY , Dr. Jean-Marie Lauenstein	
75 Minutes	Part 4: RADIATION HARDNESS ASSURANCE IN THE "WILD WEST" OF COMMERCIAL SPACE , Dr. Robert Baumann	

Tuesday, December 1

9:00 - 10:00	Short Course Q and A , Ken Galloway and Short Course Presenters	LIVE CHAT
10:00 - 10:10	Opening Remarks , Hugh Barnaby, Chair	Pre-Recorded
10:10 - 10:30	Awards , Janet Barth, Radiation Effects Steering Group Chair	
10:30 - 10:40	Technical Session Introduction , Philippe Adell, Technical Program Chair	
10:40 - 12:20	Introductions: Session A - Basic Mechanisms of Radiation Effects , Philippe Paillet; Session B - Single Event Effects: Mechanisms and Modeling , Philippe Roche (Room 1: A1 - A3; Room 2: B1 - B5)	
11:30 - 13:00	Visit the Exhibits - Exhibit Hall (exhibits will be staffed)	LIVE
12:20 - 12:50	BREAK & WEBINARS Renasas/Intersil Space – A New Radiation Hardened Precision ADC Oak Ridge National Lab – SEEMS – A New Facility for SEE Testing & Muon Spectroscopy	LIVE
12:20 - 12:50		
12:50 - 13:50		Live Q and A for Sessions A, B (Room 1: Q and A Session A; Room 2: Q and A Session B)

Wednesday, December 2

8:30 - 9:00	Cobham – CAES New Product Webinar	LIVE
9:00 - 10:00	Manhattan: The View from Los Alamos of History's Most Secret Project , Alan B. Carr	Pre-Recorded
10:00 - 12:30	Introductions: Session C - Radiation Effects in Devices and Integrated Circuits , Randall Milanowski; Session D - Photonic Devices and Integrated Circuits , Adriana Morana (Room 3: C1 - C9; Room 4: D1 - D4)	Pre-Recorded
11:30 - 13:00	Visit the Exhibits - Exhibit Hall (exhibits will be staffed)	LIVE
12:30 - 13:00	BREAK & WEBINARS 3D-Plus USA – New Product Overview TRAD – FASTRAD® Live Demonstration	LIVE
12:30 - 13:00		
13:00 - 14:00		Live Q and A for Sessions C, D (Room 3: Q and A Session C; Room 4: Q and A Session D)

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Thursday, December 3

8:00 – 8:30 9:00 - 10:00	Cobham Gaisler – Live Webinar My Search for Roswell , Tom Carey	LIVE Pre-Recorded
10:00 - 12:30	Introductions: Session E - Single Event Effects: Devices and Integrated Circuits , Georgios Tsiligianis; Session F - Terrestrial and Space Environments , Athina Varotsou; Session G - Dosimetry , Peter Beck (Room 5: E1 - E6; Room 6: F1 - F2; Room 7: G1 - G5)	
11:30 - 13:00	Visit the Exhibits - Exhibit Hall (exhibits will be staffed)	LIVE
12:30 - 13:00 12:30 – 13:00 12:30 – 13:00	BREAK & WEBINARS Robust Chip - Rad Hard Standard Cell Libraries in Advanced FinFET Technology EPC Space – Gallium Nitride (GaN) in Space	LIVE
13:00 - 14:00	Live Q and A for Sessions E, F, G (Room 5: Q and A Session E; Room 6: Q and A Session F; Room 7: Q and A Session G)	LIVE CHAT

Friday, December 4

9:00 - 11:30	Introductions: Session H - Hardness Assurance Technologies, Modeling, and Testing , Greg Allen; Session I - Radiation Hardening by Design , Jeffrey Maharrey (Room 8: H1 - H6; Room 9: I1 - I5)	Pre-Recorded
11:30 - 12:00 11:30 – 12:00 11:30 – 12:00	BREAK & WEBINARS Apogee Semiconductor – Product and Services Overview ST - RHRPMPOL01, a 7A Monolithic Synchronous Step-Down Regulator for Rad-Hard Point of Load Applications	LIVE
12:00 - 13:00	Live Q and A for Sessions H, I (Room 8: Q and A Session H; Room 9: Q and A Session I)	LIVE CHAT
13:00 - 15:00 13:00 – 13:30 13:00 – 13:30 13:30 – 14:00 13:30 – 14:00 14:00 – 14:30 14:00 – 14:30 14:30 – 15:00 14:30 – 15:00	Exhibit Reception & Webinars - Exhibit Hall ProNova – ProNova Solutions Radiation Effects Overview Presentation Silicon Technologies - RadHard Precision Analog in a Digital Timescale SkyWater - Update on 90 nm Strategic Rad-Hard by Process Platform Silvaco – Building Reliable Electronics from Atoms to Systems TopLine – Solder Columns - Extending Operating Life For 20 Year Missions Analog Devices - Commercial Space Products for Lower Cost Satellites IR HiRel - Upgrading a Flight-Proven DC-DC Converter with R9 Silicon MOSFETs Tower Jazz – Tower Semiconductor Aerospace and Defense Technology Solutions	LIVE

Monday, December 7

9:00 - 10:00	Young Professionals Talk: Space Community Microelectronics Workforce Development for the 21st Century – Diverse, Intentional, Scalable , Dr. Jonathan Pellish, NASA GSFC	Pre-Recorded & LIVE CHAT
10:00 - 12:30	Radiation Effects Data Workshop Session with Introduction : Farokh Irom	
11:30 - 13:00	Visit the Exhibits - Exhibit Hall (exhibits will be staffed)	LIVE
12:30 - 13:00 12:30 – 13:00 12:30 – 13:00	BREAK & WEBINARS EMPC – High Density RayTrace Analysis and Mapping Options using NOVICE Texas Instruments – High Speed Data Converters for Space	LIVE
13:00 - 14:00	RADIATION EFFECTS COMMITTEE ANNUAL OPEN MEETING	LIVE CHAT

Tuesday, December 8

9:00 - 10:00	Women in Engineering Talk: Success and Failure: Tales of Celebration and Learning from the Scientist's Perspective , Lisa Danielson, Los Alamos National Laboratory	Pre-Recorded & LIVE CHAT
10:00 - 13:00	Poster Session with Introduction: Andrew Sternberg	
11:30 - 13:00	Visit the Exhibits & Webinars - Exhibit Hall	LIVE
11:30 - 12:00	Renesas/Intersil Space - RadHard Plastic Components	
11:30 - 12:00	Alpha Core - High Performance FDSOI Mixed Signal IP and Rad-Hard Technology	
12:00 - 12:30	Analog Devices - Commercial Space Products for Lower Cost Satellites	
12:00 - 12:30	Texas Instruments - High Speed Clocking for Space	
12:30 - 13:00	ProNova - ProNova Solutions Radiation Effects Overview Presentation	
12:30 - 13:00	EPC Space - Gallium Nitride (GaN) in Space	