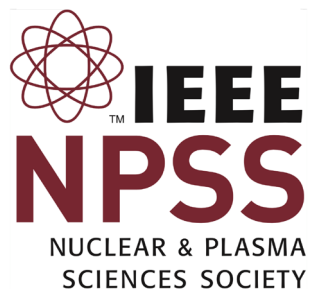


NSQN



School of Space Qualification

11 – 13TH FEBRUARY 2023

Program



SCHOOL OF SPACE QUALIFICATION PROGRAM

SATURDAY, 11 FEBRUARY 2023

18:00 - 20:00	Space Evening Event Welcome BBQ Pre-Function Area Peppers Noosa	Patricia Davidson , VC University of Wollongong Chair of the Board Australian National Space Qualification Network
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SUNDAY, 12 FEBRUARY 2023

8:00 - 8:05	Welcome	Anatoly Rozenfeld , SSQ Chair ,CMRP, UOW, Australia
8:05 - 8:10	Opening	Patricia Davidson , VC University of Wollongong Chair of the Board Australian National Space Qualification Network
8:10 - 8:15		Steve Meikle , University of Sydney, Australia President IEEE NPSS
8.15-8.25	Growing Australia's Space Industry	Mellodee Anvia , Australian Space Agency
8:25 - 9:25	Space Radiation Environments	Justin Likar , JHU APL, USA
9:25 - 10:25	Total ionizing dose effects in MOS devices	Indranil Chatterjee , Airbus, Germany
10:25-10:45	Tea/Coffee	
10:45 - 11:30	Single Event Effects in Digital Electronics PART 1	Steve Buchner , US NAVAL Lab, USA
11:30 - 12:30	Single Event Effects in Analog Electronics PART 2	Steve Buchner , US NAVAL Lab, USA
12:30 - 13:30	Lunch	
13:30 - 14:15	Single Event Effects: Pulsed Laser Testing	Li Chen , University of Saskatchewan, Canada
14:15 - 15:00	FPGA basic, PART1	Melanie Berg , NASA and Space R3 LLC, USA
15:00 - 15:45	FPGA: Radiation Hardness and mitigation strategies for critical space applications, PART2	Melanie Berg , NASA and Space R3 LLC , USA
15:45 - 16:00	Q&A	
16:00 - 16:30	Tea/Coffee	
16:30 - 17:45	Radiation Hardness Assurance	Christian Poivey , ESA
17:45 - 18:00	Q&A	Christian Poivey , ESA
19:00 - 22:00	School Dinner View Restaurant - Peppers Noosa	

SCHOOL OF SPACE QUALIFICATION PROGRAM

MONDAY, 13 FEBRUARY 2023

8:10 - 9:00	TID and NIEL effects in image sensors	Valérian Lалуcaa , French Space Agency (CNES), France
9:00 - 9:45	Operation principle and radiation degradation of solar cells	Mitsuru Imaizumi , JAXA, Japan
9:45 - 10:30	Radiation-induced defects in semiconductors and radiation damage to space solar cells	Masafumi Yamaguchi , Toyota Technological Institute, Japan
10:30 - 11:00	Tea/Coffee	
11:00 - 11:45	NIEL theory and application to degradation prediction of solar cells	Robert Walters , The Air Force Research Laboratory, USA
11:45 - 12:30	QST radiation facilities and solar cells RHA	Takeshi Ohshima , QST, Japan
12:30 - 13:30	Lunch	
13:30 - 14:15	The RADNEXT irradiation facility network for industry and research	Andrea Coronetti , RADNEXT, CERN
14:15 - 15:15	EEE Reliability and Qualification for Space	Indranil Chatterjee , Airbus, Germany
15:15 - 15:45	Tea/Coffee	
15:45 - 16:45	RHA in an industrial Space Programs	Renaud Mangeret , Airbus, France
16:45 - 17:00	Q & A	
17:00 - 17:05	Closing	