

NSRP | National Shipbuilding Research Program

Electrical Technologies and Ship Design & Material Technologies Joint Panel Meeting

Southwest Research Institute (SwRI)
Building #265
6220 Culebra Rd
San Antonio, TX 78238

Meeting Agenda

* Times listed are Central Time Zone

Day 1 – Tuesday, 5/5/2026

Time	Presentation	Speaker
8:00 AM	Breakfast	
8:30 AM	Convene Meeting	
8:30 AM	Welcome & Introductions	Jason Farmer, Electrical Technologies Panel Chair Steve Scholler, Ship Design & Material Technologies Panel Chair
8:45 AM	NSRP Update	Mark Smitherman, ATI
9:00 AM	Welcome to Southwest Research Institute (SwRI)	Karen Carpenter, SwRI
9:30 AM	Unmanned System Integration	Ron McClellan, Ingalls Shipbuilding Amitai Peleg, SEALARTEC
10:00 AM	Distributed Temperature Sensing (DTS) Integration into Ship Electrical Plant Monitoring and Controls	Gio Tomasi, RSL Fiber Systems
10:30 AM	Break	
10:45 AM	USCG Product Lifecycle Management Data Requirements Interface Mapping RA project	John Walks, Rob Parker, SSI
11:15 AM	Panel Project Update: 15kV MIL-SPEC Cable Development for U.S. Navy Ships	Greg Keyes, Ingalls Shipbuilding Kyle Codere, Marmon Aerospace and Defense
12:00 PM	Lunch	



NSRP | National Shipbuilding Research Program

Electrical Technologies and Ship Design & Material Technologies Joint Panel Meeting

Southwest Research Institute (SwRI)
Building #265
6220 Culebra Rd
San Antonio, TX 78238

Day 1 (Continued)

Time	Presentation	Speaker
1:00 PM	Navy Fiber Optic Specs and Standards Update	Joshua Carter, NSWC Dahlgren Division
1:30 PM	ShockIQ – Digital Transformation of the Navy Shock Qualification Process	Justin Caruana, Cardinal Engineering
2:00 PM	Portable Shipyard Pipe Inspection	Christen Leggett, Ingalls Shipbuilding
2:30 PM	NAVSEA 05Z3 Update	Chris Nemarich, NAVSEA 05Z33
3:00 PM	Project Update: Integrate MAESTRO Ship Structural Design Software with Femap/Nastran Software	Tobin McNatt, Ming Ma, Ph.D., MAESTRO Marine
3:30 PM	Break	
3:45 PM	Project update: Shipboard Fiber Optic Cables Enhancements	Gio Tomasi, RSL Fiber Systems
4:15 PM	Project update: High Density Blown Optical Fiber Cable and Tooling for Shipboard Installations Qualification	Adair Brown, Sumitomo Electric
4:45 PM	Review Day 1 Action Items / Closing Remarks	Walt Skalniak, ET Panel Vice-Chair
5:00 PM	Adjourn	

NSRP | National Shipbuilding Research Program

Electrical Technologies and Ship Design & Material Technologies Joint Panel Meeting

Southwest Research Institute (SwRI)
Building #265
6220 Culebra Rd
San Antonio, TX 78238

Day 2 – Wednesday, 5/6/2026

Time	Presentation	Speaker
8:00 AM	Convene Meeting	
8:00 AM	Tour of Southwest Research Institute Laboratories** <ul style="list-style-type: none"> • Fire Technology Department • Materials Engineering Lab • Marine Structures and Engineering • Robotics Lab <p>**Must be pre-registered</p>	Karen Carpenter, SwRI Vicky Poenitzsch, SwRI Mark Waldron, SwRI Cody Porter, SwRI
12:00 PM	Lunch	
1:00 PM	Southwest Research Institute Defense and Intelligence Solutions Division Overview	Bob Heidinger, SwRI
1:30 PM	Automation and Robotics	Jim Hansen, EWI
2:00 PM	Overview of FY'26 Panel Project New Starts:	
	Development and Implementation of an AI Island within a Shipyard Network (SDMT)	Christopher Bennettson, NASSCO
	Multiphysics-Driven Arc-Fault Detection for Shipboard Electrical Systems (ET)	Dr. Philip Pong, NJIT
	Evaluate Nord-Lock Wedge Washers for Electrical Applications on Navy Ship (ET)	Jim Cunard, Ingalls Shipbuilding
3:30 PM	For the Good of the Panel / Open Discussion	All
4:15 PM	Review Action Items / Closing Remarks	Vicky Dlugokecki, SDMT Panel Vice-Chair
4:30 PM	Adjourn	