

# State of the Panel Surface Preparation and Coatings Panel Tuesday, March 28, 2023

Robert Cloutier, Acting Panel Chair  
*Coatings Consultant*



# Surface Preparation and Coatings Panel's Mission

## Specification to Deck Plate Application

Research, evaluate, develop, and sustain current and emerging technologies that will reduce cost and maintain or enhance quality

**“Specs to Decks”**



# Panel's Purpose

## What does the panel do?

- Engage Suppliers, Applicators, and Specifiers of preservation systems, including NAVSEA
- Facilitate Panel meetings, facilities tours, and demos to encourage broad and active participation
- Network with Industry Experts

## Why?

- Offers everyone; AMPP, Corrosion CoP, ManTech, MegaRust, etc., a seat at the table
- Enables the Panel to grow and learn from each other
- Walk away with a common understanding of requirements
- Increases the Panel, the Shipyards, and the Navy overall chances of success

# Benefits of the NSRP SP&C Panel

## ***US Navy – NAVSEA***

- Value, Implementation, ROI
- One stop shop to address issues with Industry
- Part of the review process as to which SP&C Panel projects move forward
- Voice of the industry during the Navy Standard Item 009-32 SRRAC proposals and review

## ***Vendors – Suppliers***

- Understand customer needs

## ***Collaborating Shipyards***

- Funding for projects
- Networking with counterparts
- Interact with NAVSEA Reps, Technical Warrant Holder (TWH)

## ***Associations - Academia***

- How they can support the industry

# Surface Preparation & Coatings Panel's Projects

## Initiated Projects 2023:

- ✓ *Cleanable Nonskid Deck Covering – Panel*
- ✓ *Ultra Heat Resistant Primer – Panel*
- ✓ *Zinc-Rich Coatings Over High Strength Steel – Panel*
- ✓ *Transition of Power Tool Optimization - RAP*
- ✓ *Implementation of SP-18 in Construction – RAP*

## Completed Projects 2019-2020:

- ✓ *Optimize Power Tools Surface Preparation* 2020
- ✓ *Survey of Surface Prep & Coatings Automation*
- ✓ *Standardization and Digitization of Visual Inspection for Shipbuilding & Repair*
- ✓ *Primers with Extended AF Overcoat Window Surface Preparation*
- ✓ *Certification Program – Shipbuilding Industry Surface Prep & Coatings Training*
- ✓ *Virtual Spray Paint Training System*

2019

## Completed Projects 2014-2018:

- ✓ *Thermal Insulating Aerogel Filled Coatings*
- ✓ *Evaluation of Plasma Coating Removal & Surface Preparation* 2018
- ✓ *Partial Blast of UHS Coated Tanks II*
- ✓ *Retention of Epoxy Type VI under Ultra High Solids* 2017
- ✓ *Boomlift Carried Environ. Enclosure*
- ✓ *Implementation of Paperless Paint* 2016
- ✓ *Universal Primer & Surface Prep Process*
- ✓ *Partial Blast of UHS Coated Tanks*
- ✓ *Technical Guide for Inaccessible Void Coatings & Treatments* 2015
- ✓ *Reducing Inspection Costs Using the Latest Digital Inspection Tools*
- ✓ *Cost Savings Comparison in Applying Polysiloxane vs. Silicone Alkyd Topcoats*
- ✓ *Paperless Paint Documentation II* 2014

# Current SP&C White Paper Projects

## ***Cleanable Non-Skid Deck Covering – Panel Project***

- Identify typical Navy Shipbuilder contracts requirements/expectations for non-skid cleanliness
- Develop/identify cleaning methods for non-skid
- Summarize alternatives to replacement of non-skid

### **Potential value to the Navy:**

- Reduce rework in high traffic areas at late stages of construction
- Reduce ship construction material costs

## ***Zinc-Rich Coatings Over High Strength Steel – Panel Project***

- Develop testing protocol to assess base metal
- Generate data to understand the relative impact of Zn-Rich coatings on high strength steels
- Provide recommendations for Shipyard and Navy consideration

### **Potential value to the Navy:**

- Provides additional corrosion protection
- Prevents excessive remediation for rust and pitting

## ***Ultra Heat Resistant Primer – Panel Project***

- Propose to work with relevant industry professionals and material manufacturers to develop and study an **Ultra Heat Resistant Primer**

### **Potential value to the Navy:**

- Reduces paint removal cost for New Construction and Overhaul Work
- Improved worker safety

# Current SP&C RAP Projects

## ***Implementation of SP-18 “Thorough Spot and Sweep Blast Cleaning for Industrial Coatings Maintenance” in Shipyard***

### ***Construction – RAP***

- Develop, demonstrate, and institutionalize a “Thorough Spot and Sweep Blast” process (aka, Partial Blast) for re-preservation of tanks and/or voids with ultra-high solids coatings on surface ships.

### **Potential value to the Navy:**

- Reduced cost and schedule

### *Previous WP Project:*

- *Partial Blast of UHS Coated Tanks II – 2017*

## ***Transition of Power Tool Optimization - RAP***

- Generate data to allow Shipyard/Navy to optimize power tool cleaning
- Develop a comprehensive list of power tools available to the Industry
- Generate data on tool effectiveness in a Shipyard environment

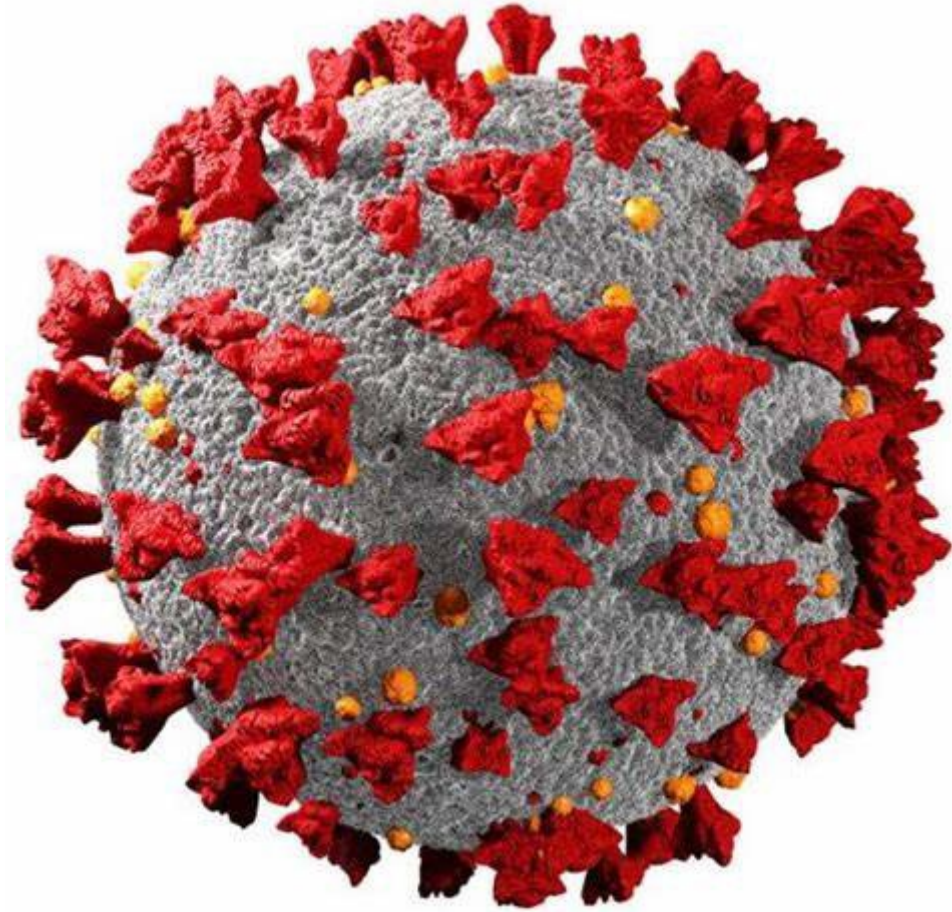
### **Potential value to the Navy:**

- Provides the right tool for the identified process
- Increase effectiveness of surface preparation process

### *Previous WP Project:*

*Optimize Power Tools Surface Preparation – 2020*

# Surface Preparation & Coatings Panel Overall Panel Meeting Attendance



We survived the Covid-19 Pandemic

- Virtual meetings
- Funding cuts
- No face to face Networking
- Lost opportunities and benefits
  - Shipbuilding and repair
  - NAVSEA, US Navy, Coast Guard
  - Industry – Supply chain

**What's next for the SP&C Panel**



# SP&C Panel Path Forward

## ***Challenges:***

- Aging Population
- Member Yards Involvement
- Funding for TWH's Attendance

## ***Administrative Issues:***

- Complete All Panel Survey
- Start MegaRust Preparation
- Determine Fall Meeting Location
- New SP&C Panel Leadership Team

## **Opportunities:**

- Rapid Adoption Projects (2)
- SP&C Panel Projects (3)
- New Members/Perceptive/Involvement

## ***Thank You:***

- Attendees - ***Outstanding***
- Presenters – ***Awesome***
- Outgoing Panel Chair – ***You're the MAN***

# SP&C Panel – Upcoming Events

Event	Date	Location
AMPP Conference & Expo 2023	March 19-23, 2023	Denver, CO
NSRP All Panel Meeting	March 28-30, 2023	Charleston, SC
MegaRust	June 13-15, 2023	Hampton, VA
AMPP DoD Event	August 14-17, 2023	Tucson, AZ
SNAME Maritime Convention 2023	September 27-29, 2023	San Diego, CA
NSRP SP&C Panel Fall Meeting	TBD	TBD
NSRP Day at NAVSEA	TBD	D.C. Navy Yard

# Arcino "Q" Quiero – SP&C Panel Chair 2014 - 2022



# Questions?

