

Mega Rust 2010: Naval Corrosion Conference

**San Diego, California, USA
7 – 10 June 2010**

ISBN: 978-1-63439-541-0

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2010) by the American Society of Naval Engineers
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the American Society of Naval Engineers
at the address below.

American Society of Naval Engineers
1452 Duke Street
Alexandria, Virginia 22314

Phone: (703) 836-6727
Fax: (703) 836-7491

asnehq@navalengineers.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

Mega Rust 2010 Proceedings

Event Date: **June 7-10, 2010**

Event Location: **Town and Country Resort & Convention Center, San Diego, CA**

Tuesday, June 8

Tuesday Technical Session

Moderator: Mr. Mark Lattner, NAVSEA

0810-0830 Welcome Aboard/Opening Remarks

Mr. Beau Brinckerhoff, NAVSEA 05P2 and Mr. Dale Hirschman, U.S.

Fleet

Forces Command (N43B)

0830-0855 Keynote Address

Vice Admiral Kevin M. McCoy, USN; Commander, Naval Sea Systems

Command

PRESENTATION

0855-0915 Corrosion Policy Updates

Mr. Dail Thomas, Department of the Navy Corrosion Executive

0915-0940 U.S. Fleet Forces Command

Mr. Dale Hirschman, U.S. Fleet Forces Command (N43B) (No

Presentation)

0940-0955 COMNAVAIRFOR

Mr. Jim Wigle, COMNAVAIRFOR

0955-1010 COMNAVSURFOR

Mr. Stuart Morgan, COMNAVSURFOR PRESENTATION

1030-1055 Up-Front Corrosion Planning in Acquisition Design

Dr. Roger D. Hamerlinck, Senior Acquisition Policy Specialist, Office of

the Assistant

to the Secretary of the Army (Acquisition, Logistics and Technology)

1055-1120 Naval Sea Systems Command

Mr. Mark Ingle, NAVSEA 05P23

1120-1145 Naval Air Systems Command

Mr. Steve Spadafora, Naval Air Systems Command

1145-1210 Marine Corps Systems Command

Mr. Matt Koch, Marine Corps Systems Command

1215-1345 Keynote Luncheon

of the Mr. Daniel Dunmire, Director for Corrosion Policy and Oversight, Office
Under Secretary of Defense (Acquisition, Technology and Logistics)

1350-1450 Fleet Panel

Rear Admiral J. Clarke Orzalli, USN; Director, Fleet Maintenance,
U.S. Fleet Forces Command (N43) PRESENTATION
Rear Admiral James McManamon, USN; Deputy Commander for Surface
Warfare, SEA 21, NAVSEA PRESENTATION
Captain Jerry Reina, USN; Commander, Southwest Regional Maintenance

Center

1450-1515 Naval Shore Facilities Corrosion Control Program

Mr. Dan Zarate, Naval Facilities Engineering Command

1515-1540 ONR Corrosion Science and Technology Efforts

Mr. Ted Lemieux, Naval Research Laboratory PRESENTATION

1555-1620 Air Force Corrosion Prevention and Control Office Overview

Captain Daniel Doak, Air Force Corrosion Prevention and Control

Office

1620-1645 Cost of Corrosion Study

Mr. Bill Needham, Naval Surface Warfare Center, Carderock

Division

Wednesday, June 9

Wednesday Technical Sessions

Moderator: Mr. Mark Lattner, NAVSEA

0810-0835 Aviation Maintenance Policy Overview

CAPT Will Ainsworth, Director, Aviation Maintenance Policy,
COMNAVAIRFOR N422

**0835-0900 Southwest Regional Maintenance Center: Maintenance and Corrosion
Activities**

CAPT Jerry Reina, Commander, Southwest Regional Maintenance

Center

0900-0925 Corrosion Control Assistance Team (CCAT)

Mr. Rich Hays, NSWC Carderock

0925-0950 Alternative Approaches to Ships Force Preservation

CDR Stephen Sarar, COMSUBLANT N43

0950-1010 Mega Rust "Just-Do-Its" Working Group Update

Mr. Mark Funke, NST Center PRESENTATION

Fleet Corrosion Symposium: U.S. Marine Corps

Moderator: Mr. Andrew Sheetz, NSWC Carderock

**1040-1100 Metrics-Driven Analysis to Optimize Tactical Vehicle Corrosion
Maintenance Repair Intervals**

Mr. Jim Ellor, Elzly Technology Corporation
(Presented by Mr. Pete Ault, Elzly Technology Corporation)

1100-1120 High Build Bed Liner Type Coatings Use for the Mitigation of Up-Armor Corrosion

Ms. Lauren Paladino, Elzly Technology Corporation
(Presented by Mr. John Repp, Elzly Technology Corporation)

1120-1140 Repair and Repainting of CARC over CARC

Ms. Sheri Sampson, Excet Inc., Naval Research Lab

1140-1200 Cold Spray Technology

Dr. Matthew Trexler, Army Research Laboratory Materials and
Manufacturing Branch PRESENTATION

**1300-1325 Development of a Ground Vehicle Appendix for the DoD Corrosion
Prevention and Control Planning Guidebook**

Mr. John Repp, Elzly Technology Corporation

**1325-1350 Marine Corps Prevention and Control Program Corrosion Prevention
Products Materials and Processes**

Mr. Brad Shaw, Visionpoint Systems, Inc. PRESENTATION

Fleet Corrosion Symposium: Coating Technology

Moderator: Mr. Dick Gilbert, Innovative Productivity, Inc.

**1040-1105 SSPC Standards Initiatives and Training/Certification Programs
of Interest to the Navy Community**

Mr. Michael Damiano, SSPC

1105-1130 Zinc Rich Primers for Corrosion Protection in Marine Environments

Mr. Pete Ault, Elzly Technology Corporation

**1130-1155 Internet-Enabled Standard Item 009-32, Documentation
Collaboration in Coatings Quality Assurance Toolkit (CQATK)**

Mr. John Horst, MI Technical Solutions

1300-1325 Magnesium Rich, Chrome Free Primer

Mr. Patrick Adams, Akzo Nobel Aerospace Coatings

1325-1350 Zinc Rich Coating System for Fasteners and Parts

Mr. Matthew Scott, PPG Industries

Fleet Corrosion Symposium: Combat Systems, Antennas, Electronics

Moderator: Dr. Tim Tenopir, NSWC Port Hueneme

1350-1410 Combat Systems Maintenance Improvements

Dr. Tim Tenopir, NSWC Port Hueneme

**1410-1430 Vapor Phase Inhibitors to Improve Life of Aircraft
in the Hostile Corrosive Environment**

Dr. Behzad Bavarian, California State University

**1430-1450 An Update on the Performance of Vapor Phase Corrosion Inhibitors
(VCIs)**

for Protecting Shipboard Voids

Dr. Ken Vasanth, NSWC Carderock PRESENTATION

1450-1510 Technology Developments to the Faster, Easier, Cheaper Maintenance Concepts for the U.S. Navy and All Military Services

Mr. Larry Cerenzie, FSC Coatings

Fleet Corrosion Symposium: Corrosion Prevention Technologies and Innovative Products

Moderator: Mr. Mark Funke, NAVSEA

1350-1410 Spray Technique Analysis and Research for Defense (STAR4Defense) Program

Mr. Rick Klein, STAR 4D

1410-1430 Chloride Removal Technology

Ms. Lenora Meister, Salt-Away Products

1430-1450 SBS Training Course

Mr. Wayne Mathe, C. Wherthy Enterprises

1450-1510 Quiet Technology for Industrial Vacuums

Mr. Chris McNamara, Rapid-Prep LLC

1535-1555 SaltSmart – Improved Method for Salt Contamination Measurements

Mr. Gavin Jones, Innovative Productivity, Inc.

1555-1615 NSRP Surface Preparation and Coating Update

Mr. Steve Cogswell, Atlantic Marine

Thursday, June 10

Thursday Technical Session 1

Fleet Corrosion Symposium: Coatings and Surface Preparation Technologies

Moderators: Ms. Pauline Smith, U.S. Army Research Lab (Morning)

Mr. Dick Gilbert, Innovative Productivity, Inc. (Afternoon)

0810-0830 Moving Technical Knowledge Into Decision Making

Mr. Cliff Johnson, NACE International

0830-0850 Peel and Stick Non-Skid Program Update

Mr. Dave Zilber, 3M Government Markets

0850-0910 A Rapid and Cost Effective Method for Performing Topside Coatings Assessments on U.S. Navy Ships

Mr. Bruce Nelson, Battenkill Technologies, Inc.

0910-0930 Preservation of Water Tight Doors

Mr. Brad Bamford, Automatic Coatings Limited

0930-0950 Non-Skid Coatings

Mr. Charlie Tricou, Penn State University

1030-1050 Corrosion and Cathodic Protection of 5XXX Series Aluminum Alloys

Dr. Brandice Green, SAIC/NRL Key West

1050-1110 Technology Advancements for Common and Complex Coating

Thickness

Measurement Applications

- Mr. Paul Lomax, Fischer Technology, Inc.
- 1110-1130 The New Coast Guard**
Mr. Gary Peters, U.S. Coast Guard, Surface Forces Logistics Center,
Engineering Services Division, Aging Cutter and Boat Branch
- 1330-1355 Surface Conditioning for Improved Corrosion Resistance of Marine
and Aerospace Aluminum Alloys**
Mr. James T. Garrett, Luna Innovations
- 1420-1440 Monel K-500 Hyrdogren Embrittlement**
Mr. Robert Bayles, Center for Corrosion and Engineering Code 6134

Thursday Technical Session 2

Fleet Corrosion Symposium: Emerging Technologies and Cathodic Protection

Moderator: Dr. Ken Vasanth, NSWC Carderock (Morning)

- 0810-0830 Corrosion and Corrosion Fatigue of Amorphous Zirconium and
Titanium-Based Alloys**
Mr. Aaron West, NSWC Corona
- 0830-0850 Novel Mechanical Sensor to Monitor Conditions Promoting
Environmentally Assisted Cracking**
Mr. Fritz Friedersdorf, Luna Innovations
- 0850-0910 Tractored and Hand-Operated Vacuum Blasting Tools for
Surface Preparation**
Mr. Geir Arne Veglo
- 0910-0930 Use of Capacitive Coupling and Electrostatic Methods for Corrosion
Control in Above-Ground, Above the Waterline and Mobile
Applications**
Mr. George Cowatch and Mr. Dan Cowatch, Counteract Corrosion

Fleet Corrosion Symposium: Maintenance and Inspection

Moderator: Mr. Mark Funke, NSWC Carderock

- 1110-1130 Tool Innovations to Reduce Navy Costs**
Mr. Ralph Fabian, Desco Manufacturing
- 1130-1200 Putting the Right Tools in the Hands of the Sailors, Part II**
Mr. Dave Zilber, 3M Government Markets
- 1330-1355 Dehumidificationomics: The Financial Impact of Controlling Humidity,
Real and Imagined**
Mr. Don Schnell, DH Tech
- 1355-1420 Dehumidification for Long-Term Lay-Ups of Shipping Vessels**
Mr. Garrett Freeman, PPG Industries
- 1420-1440 Maintenance and Repair of Immersed Steel Bulkhead Sheet Piling**
Mr. David Rozene, Acotec, Inc.

Fleet Corrosion Symposium: Future Directions

1440-1530 Future Directions – New Mega Rust Working Group Tasking
Mr. Beau Brinckerhoff, SEA 05P2 and Mr. Dale Hirschman, U.S. Fleet
Forces Command (N43B)

1530-1545 Fleet Corrosion Symposium Closing Remarks
Mr. Beau Brinckerhoff, SEA 05P2 and Mr. Dale Hirschman, U.S. Fleet
Forces Command (N43B)